A PILOT STUDY ON THE

MENTAL HEALTH OF

Adolescents and Youth at the

HAWAI'I YOUTH CORRECTIONAL FACILITY

A Project Funded by the Office of Youth Services (OYS), State of Hawai'i

June 2001(b)

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Acknowledgements

Appreciation is sincerely expressed to the Research Assistants for their dedicated work on this project: *Reina M. Ahern*, B.S., Research Assistant; *Sara L. Digrazia*, B.A., Research Assistant; *Travis R. Heth*, Student Research Assistant; *Myron L. Kung*, B.A., Research Assistant; *Jo Ann D. Lee*, B.S., Research Assistant; *Bevan H. Ly*, Student Research Assistant; *Mavis V*. *Maiava-Alaimalo*, M.A., Research Assistant; *Tim T. Unten*, Student Research Assistant; and *Elizabeth R. Walker*, M.A., Research Assistant.

Support and assistance were also provided by the staff of the Office of Youth Services (OYS), Hawai'i Youth Correctional Facility (HYCF), Native Hawaiian Mental Health Research Development Program (NHMHRDP), and Asian/Pacific Islander Youth Violence Prevention Center (APIYVPC).

Note: The opinions, findings, and conclusions or recommendations expressed in this publication/program/exhibition are those of the author(s) and do not necessarily reflect the views of the Office of Youth Services (State of Hawai'i).

Executive Summary

A major concern regarding youths at the Hawai'i Youth Correctional Facility (HYCF) is the occurrence of mental health issues and psychiatric disorders. The purposes of the present investigation were:

(1) To conduct a retrospective pilot study with the goal of systematically accessing and determining the mental health statistics of youths at the Hawai'i Youth Correctional Facility (HYCF);

(2) To suggest/recommend prevention and treatment strategies that may more effectively address the needs of "at risk" as well as incarcerated youths; and

(3) To suggest the direction, scope, and methodology of future expanded studies.

A total of 269 adolescents at HYCF were part of this retrospective study. Records were examined for the period of July 1, 1999 to June 31, 2000. In addition to basic statistical descriptions of the sample (e.g., demographics, family, child development/health, special education, violence, substance use, treatment) that can be found within this document, the following was found regarding mental health.

Of the 269 adolescents, 215 or 79.9% had at least one psychiatric diagnosis. When examining the youths who had a psychiatric evaluation report/assessment (N = 217), 215 or

99.1% had at least one psychiatric disorder. Approximately 3 in 4 had a disruptive behavior disorder, and the same ratio was found for any type of substance abuse/dependency. Nearly 2 in 3 had conduct disorder. About 1 in 4 had an affective disorder (i.e., mood, anxiety). When dividing the youths into mutually exclusive mental-health groups, the substance abuse only group was found to be older than the other groups. Adolescents in the conduct disorder only group were more likely to be victims of violence, while youths in the comorbid (at least conduct disorder &/or substance) group were more likely to be perpetrators of violence and directly involved in gangs. In general, the comorbid group, as compared to the other mental-health groups, had relatively higher rates of treatment recommendations involving individual and family psychotherapy, substance abuse, and psychopharmacotherapy. The conduct disorder group, in contrast to the other mental-health groups, was recommended treatments of individual and family psychotherapy at relatively higher rates, while the "other" youths were recommended group and family psychotherapy at a higher rate than the other mental-health groups. As would be expected, the primary treatment recommendation for the substance abuse only group was for substance abuse. Other factors to further explore include gender, which the youths were raised mostly by, employment of family supporter, family history of incarceration, and premature deliveries.

Limitations of the present study included common weaknesses of retrospective investigations (i.e., confinement to available data/variables, subjective coding, infrequent conflicting data). Additional limitations included the relatively small sample sizes of the youth subsets (e.g., ethnic distribution), sheer number of comparisons made, and lack of a normative control group.

Despite these shortcomings, implications and recommendations can be made with regard to the mental health of these adolescents. Emphasis should be placed on the development of a better clinical and scientific understanding of the link between mental health and incarceration (e.g., violence, crime) for the diverse adolescent population at HYCF. In treating adolescents at HYCF, the rate of comorbidity, especially with regard to conduct disorder and substance abuse/dependency must be considered. In addition, however, the presence of affective disorders must also be taken into account. Given that the latter may be under-diagnosed, all adolescents at HYCF may need to be provided a psychiatric evaluation. Additional isolated steps could be taken to benefit incarcerated youths at HYCF.

In a broader context, given the complexity of the relation between mental health and incarceration, a comprehensive model is needed to delineate the multitude of factors that impact mental health of diverse adolescents. A six-phase research endeavor is proposed that would provide for such a comprehensive adolescent-developmental model that would derive prevention, treatment, and maintenance components. These phases would entail: (1) collaboration, (2) literature review, (3) qualitative analysis, (4) quantitative analysis, (5) prevention and intervention, and (6) efficacy analyses.

Introduction

Purposes

The purposes of the present investigation were:

(1) To conduct a retrospective pilot study with the goal of systematically accessing and determining the mental health statistics of youths at the Hawai'i Youth Correctional Facility (HYCF);

(2) To suggest/recommend prevention and treatment strategies that may more effectively address the needs of "at risk" as well as incarcerated youths; and

(3) To suggest the direction, scope, and methodology of future expanded studies.

Significance and Background

Youth violence and incarceration are issues of major importance to our society, and much research has been generated nationally (e.g., Jensen & Howard, 1999). Common antecedent and associated variables to high-risk behaviors include: (1) early age of initiation; (2) low education expectation and poor school achievement; (3) acting out, truancy, antisocial behavior, and conduct disorder; (4) low resistance to peer influences; (5) lack of parental support; and (6) living in a deprived neighborhood (Dryfoos, 1990).

Of increasing concern is the association between youth incarceration and issues of mental health (e.g., diagnosis, prevalence, treatment; e.g., Loeber, Farrington, Stouthamer-Loeber, & van Kammen, 1998). Cocozza (1992) found that of youth incarcerated, 60%-75% have a mental illness and 20 percent are severely impacted. In addition, the prevalence of comorbid psychiatric disorders and incarceration in the adolescent population complicates successful intervention.

Studies in Hawai'i

GENERAL DEMOGRAPHIC FINDINGS

There have been several studies conducted in Hawai'i on the topic of youth crime (e.g., Department of the Attorney General, State of Hawai'i, 1998). Annual studies have found that rates of arrests and incarceration have fluctuated across the years in Hawai'i (e.g., Bradford & Perrone, 2001; Chesney-Lind, Mayeda, Paramore, Okamoto, & Marker, 1999; Department of the Attorney General, State of Hawai'i, 1998) and across the nation (e.g., Chesney-Lind et al., 2000). Growing concern has been noted in the most recent rate of female arrests (Chesney-Lind et al., 2001) as well as the consistently high male-to-female ratio found at HYCF, where boys are more likely to be committed for violent and property offenses, while girls are more likely to be committed for probation violations (Chesney-Lind, Kato, Koo, & Clark, 1997). In addition, males more than females tend to be involved in gangs at some point in their lives (Chesney-Lind et al., 2000).

A relatively stable finding is the over-representation of incarcerated Hawaiians/part-Hawaiians (52.6%), Samoans (5.9%), and African Americans (1.8%), and under-representation on the part of Caucasians (7.0%), Filipinos, and East Asians (Chinese, Japanese, Korean; based on 1993-1994; Kassebaum et al., 1995a, b). Similar results were found for 1999 HYCF records by Chesney-Lind et al. (2000) for Hawaiians/part-Hawaiians, Samoans, and African Americans. Further, 1995-1999 recidivism proportions generally mirrored the differences in incarceration figures (Bradford & Perrone, 2001): Hawaiians/part-Hawaiians = 49.6%; mixed or other ethnicity = 22.9%, Caucasians = 9.4%, Filipino = 7.1%, Pacific Islanders (non-Hawaiian) = 5.8%, Asians = 2.1%, and African Americans = 1.2%.

An important finding has been the trend of decreased over- and under-representation when back-tracking from HYCF incarceration to detention, the courts, and arrests (Kassebaum et al., 1995a, b). For example, for Hawaiians/part-Hawaiians, the following decreasing rates were found: HYCF = 52.6%, detention = 43.3%, courts = 36.2%, and arrests = 35.3%. Likewise, for mixed/other ethnicity: HYCF = 23.4%, detention = 21.1%, courts = 15.3%, and arrests = 13.9%. However, increasing rates were found in back-tracking from HYCF to arrests for Filipinos

(8.8%, 8.6%, 15.9%, 14.9%), East Asians (0.6%, 5.1%, 6.2%, and 8.0%), and Caucasians (7.0%, 15.0%, 19.5%, and 20.1%).

On the basis of results from focus groups, Kassebaum et al. (1995a, b) derived several possible factors that may contribute to the ethnic differences: cultural isolation/conflict, poor anger management, family-related variables (e.g., domestic abuse), negative peer influence (e.g., gangs), community-related variables (e.g., churches, schools), ineffective programs, financial resources, and legal representation. Additional considerations include educational expectations and role models (Chesney-Lind et al., 1999).

PROTECTIVE AND RISK FACTORS

Perhaps the most prominent longitudinal study conducted in Hawai'i on protective and risk factors is the Kaua'i Longitudinal Study (e.g., Werner, 1987). This landmark investigation that began in the 1950s prospectively tracked more than 500 multi-ethnic children on the island of Kaua'i. Several variables were found to be the best predictors of juvenile delinquency for the 1955 birth cohort: "medical factors" (e.g., perinatal stress, having congenital defects, acquiring a physical disability), social variables (e.g., low socioeconomic status, family instability at an early age), and behavioral problems (e.g., infant activity level, placement in a class for learning disabilities, long-standing mental health treatment) (Werner, 1987). A presence of at least four risk factors by the age of two increased the likelihood of a given youth having a juvenile delinquency record. Other attributes were also deemed to be risk factors (e.g., last of many siblings).

Other studies have demonstrated similar protective-risk variables: being a victim of abuse/violence, sibling influence, familial conflict/risk (e.g., legal problems/incarceration of father), peer influence, and special education (75% boys, 44% girls at HYCF) (Chesney-Lind, Koo, Kato, & Clark, 1998; Chesney-Lind et al., 2001).

MENTAL HEALTH.

Although there have been many studies on adolescent mental health, very few studies have examined youth maladjustment/crime and mental health concurrently in Hawai'i. A major exception to this trend was the Kaua'i Longitudinal Study (e.g., Werner, 1987). Approximately one in five children was considered in need of mental health services, and by age 18, more than

half of the girls and one in six boys who had a record of juvenile delinquency had "serious mental health problems" that required inpatient or outpatient treatment.

More recently, Chesney-Lind and her associates have found significant gender differences regarding mental health factors: suicide attempts (girls = 45%, boys = 7%, Chesney-Lind et al., 1997; girls = 54%, boys = 25%, Chesney-Lind et al., 2000); physical abuse (girls = 17%, boys = 24%, Chesney-Lind et al., 1997), reports of sexual abuse (girls = 38%, boys = 14%, Chesney-Lind et al., 1997; girls = 40%, boys = 5%, Chesney-Lind et al., 2000); and reports of being subjected to physical violence (girls = 27%, boys = 16%, Chesney-Lind et al., 2000). In addition, girls and boys confined at HYCF experienced an array of serious mental health problems and psychological distress (girls = 60%, boys = 53%, Chesney-Lind et al., 2000). Males exhibited anger management difficulties and tended to act out violently, while girls suffered from more depressive symptoms. The increased risk of females for depression and suicide was confirmed by Bradford and Perrone (2001) in a study of youth released from HYCF (1995-1999).

FURTHER RESEARCH NEEDED

These previous studies have provided the impetus to examine, on a more molecular level, the important association between mental health and incarceration. Kassebaum et al. (1995a, b), for example, suggested emphasizing the importance of obtaining information on various family variables, criminal histories of family members, substance abuse histories, and treatment for psychiatric and emotional problems. Thus, the present study involved a retrospective investigation of the records of the youths at HYCF during a year's span, with emphasis on examining formal psychiatric diagnoses and other mental health factors (e.g., history of psychiatric hospitalization).

Method

Participants

Participants were adolescents from the Hawai'i Youth Correctional Facility (HYCF). HYCF is located on the Windward side of the island of O'ahu and is the only State of Hawai'i facility for incarcerated youths. The present study included the adolescents who were at the institution from July 1, 1999 to June 31, 2000.

Information was collected for a total of 271 participants. Of the 271 youth, two (1 male, 1 female) were omitted from the final analyses due to one not having any current offense information and the other being the only one having only a current status offense. The male youth excluded from the analyses was of Samoan ancestry and the female adolescent was of mixed non-Hawaiian ancestry (Caucasian & Korean).

Of the 269 participants, 233 (86.6%) were admitted to HYCF once during the year of the study, while 36 youths were repeat offenders. Thirty participants (11.2%) returned to HYCF twice within the year of this study (July 1, 1999 to June 31, 2000), and 6 (2.2%) returned to the facility three times. Additional demographic information describing the sample can be found in the Results section.

Measures

All data were extracted from the medical, mental health, and legal records. When more than one psychiatric evaluation was available, information from the most recent document was utilized. When no psychiatric report was contained in the folders, the "Mental Health Risk Assessment" document was used, if available.

Appendix A contains a detailed description of variables that required further elaboration.

Procedures

Medical and mental health records were independently reviewed by at least two researchers. In addition, all data entered were verified by an independent researcher. Information from the legal records were gathered by one person due to the sensitivity of the information. All data collected were kept confidential.

Institutional Review Board (IRB) approval for the present study was granted by both the Committee on Human Studies (CHS) of the University of Hawai'i at Månoa and the Department of Health, State of Hawai'i.

Statistical Analyses

Four sets of statistical analyses were performed on the data: demographic, crime offense, legal information, and mental health. When frequency information was involved and group differences were ascertained, chi square (χ^2) analyses were conducted. For analyses that entail cell sizes five or less should be interpreted with some caution. Analyses of variance (ANOVAs) followed by Newman-Keuls subsequent *t*-tests were performed when non-categorical (e.g., continuous) data were involved. The Newman-Keuls takes into account the number of pairwise group comparisons that are made given that the greater the number of contrasts, the higher the probability of obtaining "significant" differences just by chance.

Results

The results are organized in the following manner:

(1) sample description and demographic information;

(2) current crime commitment offense (by variables related to demographics, family, child development/health, special education, violence, substance use, mental health, and treatment);

(3) legal data; and

(4) mental health (by variables related to demographics, family, child development/health, special education, violence, substance use, other mental health factors, and treatment). In interpreting the findings, emphasis must be placed on the fact that "no/no indication" is a dual code for either "no" (e.g., no accidental injuries) or "no indication" (i.e., records did not indicate one way or another whether there was an accidental injury in the past). These two codes were combined into one because in most cases, "no indication" was the more frequent entry given the retrospective nature of the present study. Therefore, "at least" is perhaps a more accurate term in referring to the "yes"/affirmative response where the complement is "no/no indication."

Sample Description and Demographics

CURRENT COMMITMENT OFFENSE

Table 1 (see Appendix B) presents the distribution of types of current commitment offenses (N = 269). The most frequent categories were property (41.3%) and probation (34.6%)

offenses, while personal (27.5%) and "other" (23.1%) had intermediary values, and drug (3.0%) and status (2.2%) offenses entailed the lowest probability. When categorizing the offenses based on whether the youth had only one type of offense, there was a significant difference among the frequencies. Most of the youths had two or more different types of offenses (27.5%), followed by probation only (27.1%) and property only (22.7%). There were no participants with only drug offenses (and there was only one youth with only a status offense; this youth was not included in these analyses).

ETHNICITY

In examining ethnicity (Table 2; N = 268), a comparable number of youth were at least part-Caucasian (N = 168; 62.7%), part-Asian (N = 154; 57.5%), and part-Pacific Islander (N =164; 61.2%). Of the five major ethnic groups in Hawai'i, there was a higher percentage (55.2%) of Hawaiians/part-Hawaiians than expected based on Hawai'i's population figures (see Table 2), while the proportions of Caucasians (7.5%), Filipinos (6.7%), and Japanese (0.4%) were less than expected. Youth with mixed (non-Hawaiian) ancestry generally appeared to be represented proportionally to the Hawai'i population at large. Based on the ethnic distribution, further analyses were based on the following groups: Caucasian (N = 20), Filipino (N = 18), Hawaiian/part-Hawaiian (N = 148), mixed non-Hawaiian (N = 63), and "other" non-mixed (N =19). A chi square analysis of these five frequencies indicated a significant difference (2 [4, N =268] = 234.95, p < .0001) among these groups.

OTHER DEMOGRAPHIC VARIABLES

There was a significant difference in the proportion of males (84.0%) to females (16.0%)—resulting in an approximately 5-to-1 ratio. A significantly greater number of youths were born in the State of Hawai'i (N = 186; 69.1%), followed by the continental U.S. and international countries. The overall average age of the youths was 16.8 years (based on the date of first admission within the study period of July 1, 1999 to June 31, 2000). At least 130 youths' prior residence was O'ahu, followed by Kaua'i (N = 42), island of Hawai'i (Big Island; N = 28), Maui (N = 26), and Moloka'i (N = 1). The mean number of admissions during the study period was 1.16.

FAMILY

Based on birth order, 14.9% were the only child, 24.6% were the first born (out of more than one child), 27.6% were between the first and last born, and 32.8% were the last born. The majority of adolescents were raised mostly by their biological mothers (N = 176) followed by their biological fathers (N = 89). The family status immediately prior to entry into HYCF indicated that 107 youths were from single-parent homes, 47 were in "blended" families, and 38 lived with relative(s). Only 25 adolescents were with their intact biological parents. Difficulty was noted in obtaining and categorizing employment data of the primary family supporter. At least 16 youths' primary family supporter was unemployed. At least 27 (10.0%) of the adolescents' immediate or extended family had a history of formally diagnosed psychiatric disorders and 51 (19.0%) of the youths' immediate or extended family had a history of incarceration.

CHILD DEVELOPMENT/HEALTH

The mean birth weight was 5.5 pounds (or 87.9 ounces). Twenty-four (8.9%) reported prenatal complications, 16 (6.0%) indicated perinatal/delivery complications, and 8 (3.0%) mentioned a premature delivery. Regarding perinatal status, 116 carried their father's name, 31 carried their mother's name, and 38 were born out of wedlock. The medical history reflected 119 (44.2%) with accidental injuries, 30 (11.2%) with loss of consciousness, 50 (18.6%) with significant past illness, and 36 (13.4%) with a surgical condition or operation.

SPECIAL EDUCATION

Based on the psychiatric evaluation reports, at least 53 (19.7%) were formally in special education. This may be an under-estimation, however, given the limited systematic access to the special education records.

VIOLENCE

In terms of violence, 137 (50.9%) were victims, 113 (42.0%) were perpetrators, 52 (19.3%) had violence in their environment (e.g., family, friends, others), and 102 (37.9%) records indicated violence that was unspecified (e.g., unspecified victim, perpetrator, or type of violence). A total of at least 205 (76.2%) of the youths were somehow associated with violence.

In reviewing the records, at least 44 (16.4%) were directly involved in gangs (as opposed to just knew someone in a gang).

SUBSTANCE USE

For the data that were available, 259 (96.3%; all but 10 youths) had a history of substance use. The most commonly used substance was marijuana (90.7%), followed by alcohol (86.3%) and cigarettes (71.4%). Over half the youths used methamphetamine (53.9%). The least-used substances were paints/glue (8.9%), LSD (15.6%), mushrooms (18.6%), and cocaine (23.8%). The earliest average start of substance use was with cigarettes (11.9 years of age); the latest use of substances involved methamphetamine (14.1 years of age).

MENTAL HEALTH

There was a significant difference among the distribution of psychiatric (mental health) diagnoses (2 [5, N = 269] = 350.38, p < .0001): conduct disorder only = 12 (4.5%), substance abuse/dependency only = 24 (8.9%), comorbidity with at least conduct disorder and/or substance abuse/dependency = 154 (57.2%), all other diagnoses = 25 (9.3%), no diagnosis = 2 (0.7%), and no psychiatric evaluation = 52 (19.3%). Therefore, 190 youths (70.6% of the 269 total; 87.6% of 217 who had a psychiatric evaluation) were diagnosed with at least conduct disorder or substance abuse/dependency. Sixty-five (24.2%) had a history of psychiatric hospitalization, 190 (70.6%) had a history of school/clinic services (e.g., school counseling), and 116 (43.1%) had a history of psychotropic medications. Regarding suicide, 14 (5.2%) were deemed suicidal, 48 (17.8%) had a history of suicidal ideation, and 53 (19.7%) had previously attempted suicide at least once. Twenty (7.4%) were deemed homicidal/violent and 2 (0.7%) were psychotic.

TREATMENT

The large majority of youths—namely 230 (85.5%)—were recommended for treatment. The most frequently recommended treatment was for substance abuse (N = 166, 61.7%) followed by treatments of individual psychotherapy (N = 137, 50.9%), psychopharmacotherapy (N = 81, 30.1%), family psychotherapy (N = 78, 29.0%), anger management (N = 65, 24.2%), group psychotherapy (N = 25, 9.3%), and occupational rehabilitation (N = 5, 1.9%). For the data available, the large majority of youths were discharged to their parents/home (N = 190, 91.8%) and court discharged (N = 188, 90.8%).

Current Crime Commitment Offense

The different types of current crime commitment offenses were categorized into five groups: (1) personal only, (2) probation only, (3) property only, (4) "other" only, and (5) two or more of six different types of offenses (i.e., personal, probation, property, "other," status, and drugs; see Appendix A for definitions). There was only one youth with "status only"; the data from this individual were not included in further analyses. No adolescents were in the "drug only" category. The five remaining groups were contrasted based on a number of variables (e.g., demographics, family, child development/health, special education, violence, substance use, mental health, and treatment). Tables 3-20 detail these findings; the following is a narrative of the trends and significant results.

FAMILY

Significant differences among the offense groups were found for residence prior to HYCF (Table 6). Among the offense groups, the largest percentage from O'ahu were in the probation only group. For the island of Hawai'i (Big Island), relatively higher proportions were found for personal only, probation only, and two or more different types of offenses. For Kaua'i and Maui, a relatively lower percentage was obtained for probation only. There was a trend (p = .0781; Table 7) for adolescents raised mostly by their biological fathers (vs. not raised mostly by their biological fathers) to have a higher rate of two or more different types of offenses (i.e., 46.0%). Another finding that approached statistical significance (p = .0643; Table 7) suggested that there were higher proportions of youths in the probation only, "other" only, and "two or more" groups raised mostly by relatives. There was also a trend (p = .0640; Table 9) of higher rates of a family history of incarceration in the property only, probation only, and personal only groups, as compared to adolescents in the "other" only and "two or more" groups.

CHILD DEVELOPMENT/HEALTH

Youths with "two or more" types of offenses had a higher rate of accidental injuries (55.4%) than adolescents in, for example, the personal only group (22.9%).

VIOLENCE

Approaching statistical significance (p = .0644; Table 14) was a higher rate of youths in the personal only group to have a higher rate of being victims of violence (68.6%) as compared to other offense groups (e.g., property only = 39.3%). In addition, a significant difference was

found (Table 14) among the rates of the adolescents being associated with any violence (e.g., 25 out of 26 youths in the "other" only = 96.2% vs. property only = 62.3%).

SUBSTANCE USE

For the age of substance use, the "other" only group started using marijuana at an earlier age (11.1 years old) than the personal only and probation only groups (12.6 years old for both).

TREATMENT

Adolescents in the "two or more" types of offense and probation only groups tended to have higher rates of treatments recommended (93.2%, 89.0%, respectively; Table 19) than youths in the property only group (75.4%). A trend (p = .0506; Table 19) existed whereby adolescents in the "two or more" group had a higher rate of substance abuse treatment recommended (73.0%) as compared to, for example, youths in the personal only group (45.7%).

Legal Variables

Tables 20 and 21 present the findings on legal variables by the five different offense groups. There were no significant differences among the offense groups in the type of commitment duration (i.e., majority, minority, other), disposition, and legal status.

Mental Health

PREVALENCE OF SPECIFIC DIAGNOSES

The psychiatric prevalence data were examined four ways: (1) prevalence of each psychiatric disorder regardless of other comorbid diagnoses and with the total of 269 as the sample size (i.e., denominator); (2) prevalence of each psychiatric disorder regardless of other comorbid diagnoses and with the sample size based on the number of youths with a psychiatric evaluation report/assessment (N = 217); (3) prevalence of mutually exclusive groups including the youths with no diagnosis and with no psychiatric evaluation report/assessment; and (4) prevalence of mutually exclusive groups excluding adolescents with no diagnosis and with no psychiatric evaluation evaluations.

Using the first method (Table 22), 79.9% of the 269 youths had at least one diagnosis, 58.4% had a disruptive behavior disorder, 50.2% had conduct disorder, 19.0% had an affective disorder, 61.7% had a substance abuse/dependency diagnosis, 14.1% had "other" disorders (e.g.,

adjustment disorders), 0.7% had no diagnosis, and 19.3% had no psychiatric evaluation report/assessment.

The rates increased substantially when using the second method—that is, examining only those who received a psychiatric evaluation (N = 217; Table 22): at least one diagnosis = 99.1%; disruptive behavior disorder = 72.4%; conduct disorder = 62.2%; affective disorder = 23.5%; substance abuse/dependency = 76.5%; "other" disorders = 17.5%; and no diagnosis = 0.9%.

After examining the profiles of different diagnoses, the youths were defined based on six mutually exclusive mental-health groups: conduct disorder only (N = 12); substance abuse/dependency only (N = 24); comorbidity with at least conduct disorder and/or substance abuse (N = 154); all other diagnoses (N = 25); no diagnosis (N = 2), and no psychiatric evaluation (N = 52). Analyses for which there were complete data (i.e., age, number of admissions, gender, place of birth, and ethnicity; Tables 23-24) did not reveal significant differences among the six mental-health groups.

The final method of grouping the youths based on mental health involved omitting from the analyses the 2 participants who did not have a psychiatric diagnosis and the 52 adolescents who did not have a psychiatric evaluation report/assessment (resulting in N = 215). The following details the statistically significant differences found among the remaining four mental-health groups: (1) conduct disorder only, (2) substance abuse only, (3) comorbidity with at least conduct disorder and/or substance abuse, and (4) all other diagnoses.

DEMOGRAPHICS

The substance abuse only group was significantly older than the other three groups based on the first admissions (during the study period; Table 25). Although females tended to have a higher percentage in the comorbid and "other" mental-health groups, this relationship was not statistically significant.

FAMILY

There was a trend (p = .0509; Table 29) for higher rates of the youths in the conduct disorder only (75.0%) and "other" (80.0%) groups to be raised mostly by their fathers. Although there was a statistically significant finding involving temporary placement, the rare occurrence of this event precluded any meaningful interpretation. A similar statement can be made for the employment data. A trend (p = .0516; Table 31) was noted in that youths in the "other"

diagnosis group had at least twice the rate of a family history of incarceration (44.0%) as compared to the remaining three mental-health groups.

CHILD DEVELOPMENT/HEALTH

Interestingly, great variability was noted for whether the youths carried their mother's name (e.g., conduct disorder only = 33.3%; substance abuse only = 0.0%; Table 34). The "other" and conduct disorder only groups had higher rates of premature deliveries (12.0%, 8.3%, respectively; Table 34) than the remaining groups (0.0% for substance only, 2.0% for comorbid). **VIOLENCE**

The violence data (Table 36) indicated that the youths in the conduct disorder only group had a higher rate of being victims of violence (75.0%), followed by the comorbid (61.7%), "other" (44.0%), and substance only (33.3%) groups. When examining the perpetrators of violence (Table 36), however, adolescents of the comorbid group (55.8%) had the highest rate followed by the conduct disorder only (41.7%), "other" (40.0%), and substance only (20.8%) groups. A trend (p = .0935; Table 37) was noted with youths in the comorbid group having the highest rate of direct gang involvement (24.0%), followed by the conduct disorder only (16.7%), "other" (12.0%), and substance abuse only (4.2%) groups.

SUBSTANCE USE

The "other" mental-health group started using methamphetamine at the earliest age (10.3 years old) as compared to the remaining three groups. However, there were only three adolescents in the "other" group. Not surprisingly, there were several significant interaction effects between the mental-health groups and substance use (Table 39). In general, the substance abuse only and the comorbid groups had higher rates than the remaining two mental-health groups in using alcohol, marijuana, methamphetamine, cocaine, and mushrooms.

OTHER MENTAL HEALTH VARIABLES

The use of psychotropic medications differed significantly among the four mental-health groups (Table 40), with the comorbid group (58.4%) having the highest rate followed by the conduct only (41.7%), "other" (32.0%), and substance only groups (20.8%). Approaching significance (p = .0714; Table 40) was slightly higher rates of homicidal/violent tendencies on the part of the conduct disorder only (25.0%) and comorbid (10.4%) groups.

TREATMENT

Three significant findings (p < .05) and two trends (p < .10) were noted in terms of treatment. In general, the comorbid group had relatively higher rates of treatment

recommendations involving individual and family psychotherapy, substance abuse, and psychopharmacotherapy. The conduct disorder group was recommended treatments of individual and family psychotherapy at relatively higher rates, while the "other" youths were recommended group and family psychotherapy. As would be expected, the primary treatment recommendation for the substance abuse only group was for substance abuse.

Discussion and Recommendations

Summary of Findings

A total of 271 youths' records were examined. One participant was not included in the analyses due to having no current commitment offense and another was not included because this adolescent was the only one with just a status offense. There remained a total of 269 youths in the present study. For a portion of the variables, "no/no indication" required cautious interpretation because of the multiple meanings of this code. This must be considered in the interpretation of the applicable results.

DESCRIPTION AND DEMOGRAPHICS

Replicating past studies, Hawaiians/part-Hawaiians were over-represented at 55.2%. Caucasians (7.5%), Filipinos (6.7%), and Japanese (0.4%) were under-represented. Males (84.0%) outnumbered females (16.0%) on an approximately 5-to-1 ratio. The majority of the youths (69.1%) were from the State of Hawai'i—mainly from the island of O'ahu. The youths were raised mostly by their biological mothers and at least 2 in 5 were from single-parent homes; only 25 adolescents were with their intact biological parents. At least 1 in 10 of the adolescents were parents themselves. More than a third of the youths' immediate or extended family had a history of formally diagnosed psychiatric disorders and approximately 1 in 5 of the youths' immediate or extended family had a history of incarceration. At least 1 in 7 were born out of wedlock. Approximately 1 in 5 were formally in special education, although this ratio may be an underestimate, given that this figure was based solely on the psychiatric evaluation report; direct access to the educational records was limited. At least 3 in 4 were associated with violence (self, others) and at least 1 in 6 were directly involved in gangs. Nearly all of the youths had a history of substance use, with marijuana being the most frequently used and half of the youths using methamphetamine, but at a later age than the other substances. Approximately 7 in 8 had a psychiatric diagnosis of either conduct disorder or substance abuse/dependency (with or without other disorders). One in 4 had a history of psychiatric hospitalization, 7 in 10 had a history of school/clinic services (e.g., school counseling), and 1 in 5 had a previous suicide attempt. Approximately 1 in 14 was homicidal/violent. At least 6 in 7 were recommended for treatment, with the most frequent intervention being for substance abuse. Discharges occurred mainly by the courts to the parents/home.

CURRENT CRIME COMMITMENT OFFENSE

The most prevalent types of offenses involved property and probation. There was a relatively higher percentage of youths in the probation only group from O'ahu than the other offense groups, whereas this was less the case for Kaua'i and Maui. Youths with "two or more" types of offenses had a higher rate of accidental injuries and treatments recommended, while the "other" offense group had higher rates of being associated with violence and using marijuana at an earlier age.

MENTAL HEALTH

Fifty-two youths did not have a psychiatric evaluation report/assessment in their records. When examining the youths who had a psychiatric evaluation report/assessment, all but two had at least one psychiatric diagnosis (215 of 217; 99.1%). Approximately 3 in 4 had a disruptive behavior disorder, and the same ratio was found for any type of substance abuse/dependency. Nearly 2 in 3 had conduct disorder. About 1 in 4 had an affective disorder (i.e., mood, anxiety). When dividing the youths into mutually exclusive mental-health groups, the substance abuse only group was found to be older than the other groups. Adolescents in the conduct disorder only group were more likely to be victims of violence, while youths in the comorbid (at least conduct disorder &/or substance) group were more likely to be perpetrators of violence and directly involved in gangs. Other factors to further explore include gender, who the youths were raised mostly by, employment of family supporter, family history of incarceration, and premature deliveries. In general, the comorbid group had relatively higher rates of treatment recommendations involving individual and family psychotherapy, substance abuse, and psychopharmacotherapy. The conduct disorder group was recommended treatments of individual and family psychotherapy at relatively higher rates, while the "other" youths were

recommended group and family psychotherapy. The substance abuse only group was mainly recommended for substance abuse treatment.

Limitations

The present study was a preliminary retrospective investigation to begin to ascertain the mental-health prevalence rates and protective-risk factors concerning adolescents at HYCF. The intent was not to draw definitive conclusions about all of the variables that were examined, but rather, to begin the groundwork to discuss relevant clinical implications and to propose future applied prospective research that would lend themselves to greater scientific rigor—and greater definitive conclusions.

In this context, the majority of the limitations of the present study were due to the nature of retrospective investigations. First, not all of the relevant protective and risk factors may have been documented in the youths' records—or at least not documented consistently. Second, difficulty in coding relatively subjective record content precluded the collection of some of the data (e.g., "significant events"). Third, the "no/no indication" code was problematic in that this represented the possibility of three responses: (1) "no" (the records indicated "no"), (2) "no indication" (the records did not indicate one way or another), and perhaps (3) "yes" (the records did not indicate one way or another), and perhaps (3) "yes"). Given the nature of retrospective research, caution was noted (e.g., used "at least" to reflect the possibility of positive, present, or "yes" indicators). And fourth, occasionally, inconsistent information (e.g., substance use) across two different sources of information (e.g., past historical records vs. present clinical interview with the youth) resulted in the derivation of operational definitions such as taking the most recent data or entering the values as missing/incomplete.

Additional limitations included: (1) relatively small sub-groups, (2) categorization of variables, (3) total number of comparisons, and (4) lack of a control/normative group. Due to the defined scope of the study and resources available, only one year of retrospective data were collected and analyzed (N = 269). Grouping the youths (e.g., current commitment offense, psychiatric diagnoses, etc.) resulted in relatively small subsets of adolescents (e.g., N = 18 for Filipinos). This decreased the power of the statistical analyses.

Categorization of the levels/values of the variables was based on maintaining a reasonable number of participants per subgroup as well as other criteria. Finer analyses are

needed on the existing data to determine if the most effective techniques were used in defining the levels/values of the variables (e.g., where to categorize sex assaults).

The more contrasts performed, the more likely "significant" results will be the artifact of conducting too many comparisons (i.e., Type I errors). Aside from the Newman-Keuls correction for subsequent *t*-tests, no other adjustments were made to the findings in light of the exploratory nature of the present investigation.

Finally, the lack of a control or comparison normative cohort group precluded relevant comparisons between the HYCF and such a normative group. This would have allowed for more definitive statements about protective and risk factors associated with youth at HYCF.

Implications and Recommendations

Despite the limitations of the present study, several implications and recommendations can be drawn.

TYPE OF OFFENSE

The most common offenses were property and probation offenses, and to some extent, multiple offenses (falling into different offense categories). Further analyses of the primary offenses are required to dissect the specific types of offenses within each offense category to determine whether there are patterns that would suggest effective prevention or intervention strategies.

DEMOGRAPHIC DIFFERENCES

The data collected on gender were complete and could be considered reliable and valid. The information gathered on ethnicity was also complete in the sense that all but one youth's ethnic ancestry was collected. Although the reliability and validity of the ethnic data may not be as high as that compared to gender—if not just because of the complexity of ethnicity (e.g., mixed ancestry)—the replication of previous findings (e.g., over-representation of Hawaiians/part-Hawaiians) suggested that the data were at least moderately reliable and valid. Under these circumstances, emphasis should be placed on investigating the core reasons for some proportional differences in prevalence-rate discrepancies. This may involve "back tracking" the history of the youths (e.g., family court, schools, home, communities) to determine if there is point where these differences no longer exist and if a genesis of these disparities begins to

surface. Findings along this course may lead to unintentional biases in assessment or referrals, which may in turn lead to prevention and intervention strategies that help youths of all demographic backgrounds. Previous research by Kassebaum et al. (1995a, b) suggested that this would be a fruitful endeavor given the decrease in differences in back-tracking from HYCF incarceration to arrests. Such an approach must also consider other factors including socioeconomics, family, community, and so on.

FAMILY, CHILD DEVELOPMENT/HEALTH, SPECIAL EDUCATION

The pattern that evolved suggested that family and social variables may be associated with the status of the youths (e.g., single-parent home, family history of psychiatric disorders, family history of incarceration). However, future studies must utilize more valid and comprehensive assessments given the nature of the family, child development/health, and special education data in the present study. Consideration should be given to qualitative, in-depth interviews to assure that important variables are not omitted from a quantitative structured survey. In addition, access to educational records (e.g., grades, standardized test scores, Individualized Education Plans [IEPs]) is essential in a thorough evaluation of the factors influencing these adolescents.

VIOLENCE

A major correlate was violence, with the majority of youths somehow associated with a violent environment. In addition to more molecular analyses on the types of violence acts, victimization, and so on, further research is needed on the cause-effect relationship between victimization or exposure to violence with the diverse youth populations in Hawai'i. This type of investigation should include detailed, time-specific investigations of family violence and gang involvement (both direct and indirect—e.g., peers).

SUBSTANCE USE

Along with violence, substance use, abuse, and dependency were extremely prevalent among the youths. Once again, "back-tracking" the history of the adolescents may assist in the development of a cause-effect model, including how violence/crime and substance use are interrelated. This information is needed to identify appropriate prevention strategies and target interventions.

MENTAL HEALTH

The overall findings indicated that mental health disorders were prevalent for nearly all youths who had a psychiatric evaluation—with conduct disorder and substance abuse/dependency being the most prominent concerns. However, affective disorders were also present in one-fourth of the population and the comorbidity rates were excessively high. Emphasis should be placed on the development of a better clinical and scientific understanding of the link between mental health and incarceration (e.g., violence, crime) for the diverse adolescent population at HYCF, which may necessitate the evaluation of all adolescents who enter HYCF (i.e., in reference to the 52 youths who did not have an evaluation/assessment). In addition, given the complexity of the relation between mental health and incarceration, a longitudinal approach is needed that incorporates prevention (pre-HYCF), treatment (HYCF), and maintenance (post-HYCF).

TREATMENT

Although treatment recommendations were examined for the records that indicated such information, more systematic studies are necessary to determine the efficacy of existing treatments as well as to implement and evaluate traditionally effective and innovative programs that may be more appropriate for the diverse population at HYCF. Such an efficacy approach should consider a developmental and inter-disciplinary viewpoint (e.g., that considers socioeconomic, social, psychological, and community-based factors).

Future Research

As deduced from above, only a limited amount of definitive information can be gleamed from retrospective data, especially when the questioned posed are so all-encompassing. The present study, along with the previous investigations on the same topic, should be considered the foundation of which to build upon. A series of systematic research investigations are necessary to answer the pressing questions surrounding the youths at the HYCF:

(a) *Prevention* - What are the core antecedent (protective and risk) factors that put at risk some youths to end up at HYCF and others to avoid HYCF? Can we derive and implement techniques based on these protective and risk factors?

(b) *Treatment/intervention* - What are the effective treatments that can be provided to the youths while at HYCF that will assist them in their daily functioning at HYCF and to their adaptation upon leaving HYCF? How can these treatments best be implemented and the outcomes monitored?

(c) *Longitudinal maintenance* - Upon leaving HYCF, what are the most effective transitional programs that will assist the adolescents to adapt to their new environments? How can these interventions best be facilitated/implemented and the outcomes monitored?

A considerable effort is needed to answer these questions more fully. Ultimately, a comprehensive, longitudinal model should be derived. This will entail at least four main components: (1) different stakeholders (e.g., both "at/high risk" and non-at-risk youths, parents/care givers, peers, schools, community); (2) adolescent developmental approach (i.e., longitudinal from pre-HYCF, during HYCF, post HYCF); (3) qualitative to quantitative progression; and (4) assessment/evaluation to prevention/intervention. Six phases have been derived to build such a comprehensive model that addresses all four components:

(a) *Phase 1: Collaboration* - Several stakeholders are involved with the youths prior to entering, during their stay at, and after they leave HYCF. A coordinated effort is needed to mobilize these entities into taking on an applied/practical and scientific/empirical approach.

(b) *Phase 2: Literature Review* - A comprehensive literature review, of both local and national initiatives related to youth incarceration, is needed as a starting point on possible critical variables to consider. This should be tempered, however, with the knowledge that Hawai'i's adolescents compose a diverse population. Theories that are applicable to other parts of the nation may not apply here in Hawai'i.

(c) *Phase 3: Qualitative Approach* - Given the general lack of research on Hawai'i's incarcerated youths, and given the diversity among Hawai'i adolescents, a more qualitative approach (e.g., in-depth interviews, focus groups) may be warranted at first. The goal of such an approach would include extrapolating important variables that would not otherwise have

surfaced with a national literature review. In addition, such an approach would be more responsive to gearing other phases of research to be more culturally sensitive and appropriate in participant recruitment, interview techniques, survey questions, etc. Participants to consider include youth (both "at/high risk" and non-at-risk), families, peers, agencies (e.g., schools), and communities. Participants should include not only those at HYCF, but youths "at risk" for placement at HYCF and those who have been discharged from HYCF. An important point in this context is the need to have a control/normative group to compare the findings between the "at/high-risk" youths versus the control group—in determining protective-risk factors and deriving a comprehensive causal model of juvenile delinquency. Additionally, information should be collected longitudinally (i.e., tracking and re-interviewing the participants across a given time period—e.g., every six months).

(d) Phase 4: Quantitative Approach - While recognizing the unique attributes of each youth and his/her individual circumstances, patterns of protective and risk factors will likely emerge from the literature review and qualitative analyses (e.g., socioeconomics, social support, stressful life events, violence, substance use, mental health). A preliminary comprehensive developmental model could be derived in this phase, and should include different variations of the model as a function of, for example, subtypes of "at-risk" youths. Quantitative instruments could be constructed (if they do not already exist) based on the constructs included in the model.

(e) *Phase 5: Prevention & Intervention* - Prevention and intervention programs, including experimentally controlled ones, would be developed based on modifications/confirmation of the developmental model. The programs (e.g., educational curriculum/instruction for prevention) would be implemented cross sectionally and longitudinally (e.g., educational prevention program for youths "at risk" for being at HYCF, adolescents already at HYCF, and young adults who were placed at HYCF—across a period of time).

(f) *Phase 6: Efficacy Analyses* - Outcome studies would be pre-planned and implemented concurrently with the prevention and intervention programs. Modifications to the overall model and programs would be made as a function of the results of these evaluations.

Although these six phases are generally in sequential order, components of each could be implemented out-of-sequence dependent upon the specific circumstances.

Conclusion

Mental health issues are clearly tied to the youths incarcerated at the Hawai'i Youth Correctional Facility (HYCF). Nearly all of the adolescents who received a psychiatric evaluation had a mental health disorder, and more than half had two or more psychiatric disorders—with higher comorbidity rates associated with conduct disorder and substance abuse/dependency. However, affective disorders were also of concern for approximately onefourth of the HYCF population.

A comprehensive developmental approach is needed to address the complex issues related to the mental health of these diverse youths. Such an approach should include qualitative and quantitative components from a cross-sectional and longitudinal perspective with multiple stakeholders in mind. Ultimately, the goals are the development and implementation of effective prevention and intervention strategies to decrease the prevalence of mental health disorders.

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Appendix A - Measures and Operational Definitions

The following is a list of the variables that required further elaboration regarding their operational definitions. These definitions are important because their coding and prevalence may be highly dependent upon the manner in which the variables are defined.

Demographic

Age. Age was calculated using the date of birth and date of first admissions during the study period of July 1, 1999 to June 31, 2000.

Place of birth. When discrepant information was found, information was used from the "pertinent information sheet."

Ethnicity. This variable was coded based on all available data, which allowed for individuals to be grouped based on mixed ancestries. Ethnicity data were not available for only one participant.

Employment status. Information regarding employment status was recorded for the primary family supporter.

Family

Residence prior to HYCF. This variable reflected the residence of youths' homes. Youths who were detained at the detention home on O'ahu prior to their commitment to HYCF were not considered to be residing on O'ahu if their home residence was a neighbor island.

Family status. "Blended" family was defined as one with a step-parent and/or stepsibling living together.

Birth order. Information regarding births of twins were not accounted for within this report.

Raised mostly by. Although the word "mostly" in the variable name implies the choice of only one response, more than one code occurred for some youths. Therefore, the frequency

and percentage were calculated for each choice separately. For purposes of this report, an adoptive parent included anyone who adopted one of the youths, including a family member.

Teenage parent. This variable included only the adolescents who were parents (as opposed to females who were pregnant, but no further status was indicated).

Family psychiatric history. Affirmative cases were those where at least one immediate or extended family member was formally diagnosed with a psychiatric disorder. This did not include family members who were suicidal without a formal psychiatric diagnosis. "Alcoholism" and "alcoholic" were considered alcohol dependency and thus entered affirmatively. On the other hand, "vague history of substance abuse" and "dad drinks a lot" were not considered a formal diagnosis.

Family history of incarceration. This variable was coded affirmatively only when at least one immediate or extended family member was incarcerated (as opposed to "convicted," had "legal problems/difficulties"). Significant others (e.g., boyfriend) who were not married to the adolescent were not considered "family members" for the purpose of operationalizing this variable.

Current Crime Commitment Offense

Personal. This category included: abuse of family household member, accidental body injury, assault, assault police officer, attempted assault, endangering the welfare of minor, harassment, kidnapping, negligent homicide, and terroristic threatening.

Probation. This category included: motion to revocation of probation, revocation of parole, revocation of probation, violation of probation, and violation of protected supervision. violation, and unloaded firearm.

Drugs. This category included: detrimental drugs, drug paraphernalia, and promotion of detrimental drugs.

Status. This category included: curfew, driving under intoxication under 21, prohibitions involving a minor, runaway, and truancy.

"2 or more." When the current commitment offenses for a given youth fell into more than two different categories above, the adolescent was placed into this group of "2 or more."

Special Education

The presence of "special education" was defined as the youth either being diagnosed/certified with an educational disability (including emotionally disabled) or "in special education." Statements such as "has academic difficulties" was not coded as being affirmative.

Violence

A matrix was derived with victim on one axis and perpetrator on the other axis. When an incidence of violence was extracted from the records, it was coded within the matrix to indicate who the victim was, who the perpetrator was, and the type of violence/assault (i.e., physical abuse, assault, sexual abuse, emotional abuse). The youth may or may not have actually witnessed the violence for the event to be coded affirmatively (e.g., one parent hitting another parent in the absence of the youth). When violence occurred, but the victim, perpetrator, or type of violence was not clear, this event was coded as "unspecified" violence. "Verbal abuse" was coded as "emotional abuse." "Spanking" with clear negative connotations was coded as physical abuse. The following were not coded as violence: "suspicion of violence," "terroristic threatening," "verbal threats," "threats of assault," "hijacking," and "bullied." For the present purpose, although a suicide attempt could be considered violence against oneself, this type of act was not coded in the matrix, but rather, coded in a separate variable called suicide attempts.

Gang involvement. Youths were indicated affirmatively on this variable only when there was direct involvement. For example, associating with a friend who was in a gang was not coded. Contradictory information (e.g., school says that the youth was a gang member, youth says he/she was not) was rectified with reliance on the youth; this occurred very infrequently.

Substance Use

Age of substance use. When an age range was provided, the mean was entered as the age.

Mental Health

Axis I diagnosis. Information regarding Axis I diagnoses was categorized into six separate categories as indicated in the Results section.

Treatment Recommendations

Group psychotherapy. "Group therapy directed at substance abuse training" was coded as "group psychotherapy."

	TYPE OF OFFENSE													
	Personal	Probation Property	"Other"	Status ^a	Drug ^b	<u>2 or More</u> ^c								
TYPE	N %	N % N %	N %	N %	N %	N %								
At least	74 27.5	93 34.6 111 41.3	62 23.1	6 2.2	8 3.0	na na								
Only ^d	35 13.0	73 27.1 61 22.7	26 9.7	na na	na na	74 27.5								

Table 1Frequencies and Percents of Type of Current Commitment Offense (N = 269)

^a There was only 1 participant with "Status Only"; this participant is not included in this analysis.

^b There were no participants with "Drug Only."

^c "2 or more" includes 2 or more of the 6 category offenses: Personal, Probation, Property, "Other," Statu and Drugs.

^d Comparison of frequencies is statistically significant: χ^2 (4, N = 269) = 36.33, p < .0001.

		lawai'i Y Correctic		ility	Hawai'i Health Surveillance	Hawai'i Health	1990 Census
					Youth ^b	Surveillance	(Ages
	Any		Only		(Ages 14-17)	All ^c	14-18)
	C	Column		olumn	Column	Column	Column
ETHNICITY	N	0iuiiiii %	N	% 0000000	%	% 2010	% 000000000000000000000000000000000000
		70		70	70	70	70
Caucasian	168	62.7	20	7.5	13.1	22.1	
Asian	154	57.5	23	8.6			
Cambodian	1	0.4	1	0.4			
Chinese	63	23.5	0	0.0			
Korean	11	4.1	2	0.7			
Filipino	92	34.3	18	6.7	14.9	10.0	
Japanese	41	15.3	1	0.4	13.4	20.3	
Laotian	1	0.4	1	0.4			
Thai	1	0.4	0	0.0			
Pacific Islander	164	61.2	155	57.8			
Guamanian	5	1.9	0	0.0			
Hawaiian	148	55.2	4	1.5			18.1 ^d
Part-Hawaiian	na	na	144	53.7	29.6	20.6	
Micronesian	2	0.7	1	0.4			
Samoan	24	9.0	5	1.9			
Tahitian	2	0.7	0	0.0			
Tokelauan	1	0.4	0	0.0			
Tongan	3	1.1	1	0.4			
Other	na	na	6	2.2		6.2	
African Americ	ce 24	9.0	2	0.7			
Alaska Native	1	0.4	0	0.0			
Hispanic	63	23.5	5	1.9			
"Indian"	2	0.7	0	0.0			
Jamaican	1	0.4	0	0.0			
Native Am. Inc	di: 20	7.5	0	0.0			
Mixed Non-Hawaiiar	n na	na	63	23.5		20.8	

Table 2 Frequencies and Percents of Ethnic Groups $(N = 268)^{a}$

^a The ethnicity of one youth could not be determined from the records.

^b Average of 1991 & 1996; Hawai'i Health Surveillance, special unpublished data, persocommunication, July 1997.

^c Department of Business, Economic Development & Tourism, State of Hawai'i, 1997.

^d Forced choice format (most are part-Hawaiian).

Table 3Means, Standard Deviations, and N Sizes of Demographic Variables By Type of Current Commitment Offense (N = 269)

					TYPE OF	OFFENS	E						
	Tot	al	Perso Only (G1)	nal Proba Only (G2)	tion Prope Only (G3)	erty "Othe Only (G4)	r" 2 or N (G5)			is of V	/arianc	e (ANOVA))
VARIABLES	Mean (SD)	N	Mean	Mean N (SD)	Mean	Mean	Mean N (SD)			(df)		R ²	N-K Diff. ^b
Age (in years) (at 1st commitment) (07/01/99 to 06/31/00)	(1.24)		16.81 (1.28)	35 16.98 (0.94)	73 16.83 (1.37)	61 16.40 (1.38)	26 16.81 (1.30)	74	1.07 (4,	, 264)	.3706	.016	ns
Number of Admissions (07/01/99 to 06/31/00)			1.20 (0.47)	35 1.19 (0.46)	73 1.13 (0.39)	61 1.19 (0.49)	26 1.11 (0.35)	74	0.57 (4,	264)	.6881	.008	ns

Note:

^a "2 or more" includes 2 or more of the 6 category offenses: Personal, Probation, Property, "Other," Status, and Drugs. ^b Newman-Keuls subsequent tests; ns = not significant.

			TYPE OF OFFENSE											
	T	otal		Personal Probation Only Only			Property Only		"Other" Only		2 or More ^a		<u>Chi Square[□]</u>	
	N	001	N	00/	N	00/	N	00/	N	00/	N	00/	2 (15)	
VARIABLES	(269)	C%	(35)	C%	(73)	C%	(61)	C%	(26)	C%	(74)	C%	χ^2 (df) μ	0
Gender													124.49 (1)<.00	001
Male	226	84.0	28	80.0	59	80.8	53	86.9	23	88.5	63	85.1	1.80 (4) .77	
Female	43	16.0	7	20.0	14	19.2	8	13.1	3	11.5	11	14.9		
Birth Place													292.00 (3)<.00	001
Hawai'i	186	69.1	24	68.6	55	75.3	42	68.9	18	69.2	47	63.5	17.20 (12) .14	421
Mainland/U.S. territory	51	19.0	6	17.1	10	13.7	9	14.8	4	15.4	22	29.7		
International	19	7.1	2	5.7	7	9.6	5	8.2	1	3.9	4	5.4		
No indication	13	4.8	3	8.6	1	1.4	5	8.2	3	11.5	1	1.4		
Ethnicity ($N = 268$)													234.95 (4)<.00	001
Caucasian	20	7.5	2	5.7	8	11.0	3	5.0	1	3.9	6	8.1	15.24 (16) .50	068
Filipino	18	6.7	3	8.6	6	8.2	3	5.0	2	7.7	4	5.4		
Hawaiian/part-Hawaiian	148	55.2	18	51.4	35	48.0	39	65.0	13	50.0	43	58.1		
Mixed non-Hawaiian	63	23.5	8	22.9	15	20.6	13	21.7	10	38.5	17	23.0		
Other non-mixed	19	7.1	4	11.4	9	12.3	2	3.3	0	0.0	4	5.4		

Table 4 Frequencies and Percents of Demographic Variables by Type of Current Commitment Offense (N = 269)

Note:

^a "2 or more" includes 2 or more of the 6 category offenses: Personal, Probation, Property, "Other," Status, and Drugs.

^b For each variable, the first chi square refers to the total; the second chi square refers to the interaction between the variable a type of offense. Chi square analyses involving cells of 5 or less should be interpreted with caution.

		TYPE OF OFFENSE									
	Tota	Perso Only al (G1)	nal Proba Only (G2)	ition Prope Only (G3)	erty "Othe Only (G4)	r" 2 or M (G5)		nalysis of '	√ariano	ce (ANOVA)	
VARIABLES	Mean (SD)	Mean N (SD)	Mean N (SD)	Mean N (SD)	Mean N (SD)	Mean N (SD)	N	F (df)	p	R^2	N-K Diff. ^b
Number of Siblings Biological siblings	1.93 <i>°</i> (1.49)	144 2.29 (1.38)	14 1.60 (1.27)	45 1.97 (1.20)	31 2.60 (2.53)	15 1.90 (1.43)	39 1.5	53[4, 139)	.1959	.042	ns
Half brothers	1.70 (1.46)	54 1.63 (0.92)	8 1.54 (1.13)	13 1.14 (0.36)	14 1.57 (0.79)	7 2.67 (2.53)	12 2.(02 (4, 49)	.1056	.142	ns
Half sisters	1.48 (0.88)	40 1.50 (0.58)	4 1.18 (0.40)	11 1.88 (1.73)	8 1.33 (0.52)	6 1.55 (0.52)	11 0.3	76 (4, 35)	.5567	.080	ns
Step brothers	1.71 (0.95)	7 na na	0 1.33 (0.58)	3 3.00 (0.00)	1 na na	0 1.67 (1.15)	3 1.2	26 (2, 4)	.3770	.386	ns
Step sisters	2.00 (0.89)	6 2.00 (1.00)	3 3.00 (0.00)	1 na na	0 na na	0 1.50 (0.71)	2 0.9	90 (2, 3)	.4941	.375	ns

Note:

^a "2 or more" includes 2 or more of the 6 category offenses: Personal, Probation, Property, "Other," Status, and Drugs.

^b Newman-Keuls subsequent tests; ns = not significant.

Table 5	
Means, Standard Deviations, and N Sizes of Family Variables By Type of Current Commitment Offense	

						TYF	PEOFC	FFE	NSE								
	Total		Perso Only (G1)	nal	Proba Only (G2)	ation	Prope Only (G3)	erty	"Othe Only (G4)	r"	2 or N (G5)	1ore ^a	Analy	∕sis of V	<i>'ariance</i>	e (AN	iova)
VARIABLES	Mean (SD)	N	Mean (SD)	N	Mean (SD)	N	Mean (SD)	N	Mean (SD)	N	Mean (SD)	N	F	(df)	p	R ²	N-K Diff. ^b
Number of Siblings Biological siblings	1.93 1 (1.49)	144	2.29 (1.38)	14	1.60 (1.27)	45	1.97 (1.20)	31	2.60 (2.53)	15	1.90 (1.43)	39	1.53(4, 139)	.1959	.042	ns
Half brothers	1.70 (1.46)	54	1.63 (0.92)	8	1.54 (1.13)	13	1.14 (0.36)	14	1.57 (0.79)	7	2.67 (2.53)	12	2.02	(4, 49)	.1056	.142	ns
Half sisters	1.48 (0.88)	40	1.50 (0.58)	4	1.18 (0.40)	11	1.88 (1.73)	8	1.33 (0.52)	6	1.55 (0.52)	11	0.76	(4, 35)	.5567	.080	ns
Step brothers	1.71 (0.95)	7	na na	0	1.33 (0.58)	3	3.00 (0.00)	1	na na	0	1.67 (1.15)	3	1.26	(2, 4)	.3770	.386	ns
Step sisters	2.00 (0.89)	6	2.00 (1.00)	3	3.00 (0.00)	1	na na	0	na na	0	1.50 (0.71)	2	0.90	(2, 3)	.4941	.375	ns

^a "2 or more" includes 2 or more of the 6 category offenses: Personal, Probation, Property, "Other," Status, and Drugs.

^b Newman-Keuls subsequent tests; ns = not significant.

Table 7

Frequencies and Percents of Family Variables by Type of Current Commitment Offense (N = 269)

						TYPE	OF OF	FENSE						
	<u> </u>	otal	Per: Only	sonal y	Prot Only	oation /	Prop Only	oerty /	"Otl Onl	her" y	<u>2 or</u>	More ^a	<u>Chi S</u>	quare⁵
VARIABLES	N (269)	C%	N (35)	C%	N (73)	C%	N (61)	C%	N (26)	C%	N (74)	C%	χ^2	(df) p
Raised Mostly By														
Biological father				~		.					~ .		30.78	. ,
Yes		33.1	9	25.7	23	31.5	17	27.9	6	23.1	34	46.0	8.40	(4) .078
No/no indication	180	66.9	26	74.3	50	68.5	44	72.1	20	76.9	40	54.1	25.04	(1) - 000
Biological mother Yes	176	65.4	19	54.3	46	63.0	39	63.9	19	73.1	53	71.6	25.61 4.10	(1) <.000 (4) .393
No/no indication		34.6	16	45.7	40 27	37.0	22	36.1	7	26.9	21	28.4	4.10	(4) .593
Maternal grandparent(54.0	10	45.7	21	57.0	22	50.1	'	20.9	21	20.4	168.66	(1) <.000
Yes		10.4	4	11.4	6	8.2	8	13.1	1	3.9	9	12.2	2.34	()
No/no indication		89.6	31	88.6	67	91.8	53	86.9	25	96.2	65	87.8	2.04	(4) .070
Paternal grandparent(- · ·	00.0	01	00.0	0,	01.0	00	00.0	20	00.2	00	01.0	234.20	(1) <.000
Yes	, 9	3.4	2	5.7	3	4.1	1	1.6	1	3.9	2	2.7	1.40	. ,
No/no indication	260	96.7	33	94.3	70	95.9	60	98.4	25	96.2	72	97.3		
Relative(s)													147.22	(1) <.000
Yes	35	13.0	1	2.9	11	15.1	4	6.6	5	19.2	14	18.9	8.88	. ,
No/no indication	234	87.0	34	97.1	62	84.9	57	93.4	21	80.8	60	81.1		()
Older sibling(s)													249.37	(1) <.000
Yes	5	1.9	1	2.9	3	4.1	0	0.0	1	3.9	0	0.0	5.34	(4) .254
No/no indication	264	98.1	34	97.1	70	95.9	61	100.0	25	96.2	74	100.0		
Adoptive parent(s)													230.49	(1) <.000
Yes	10	3.7	2	5.7	4	5.5	2	3.3	1	3.9	1	1.4	2.21	(4) .696
No/no indication	259	96.3	33	94.3	69	94.5	59	96.7	25	96.2	73	98.7		
Foster parent(s)													215.91	(1)<.000
Yes	14	5.2	0	0.0	3	4.1	5	8.2	0	0.0	6	8.1	5.90	(4) .206
No/no indication	255	94.8	35	100.0	70	95.9	56	91.8	26	100.0	68	91.9		
Other													116.46	(1) <.000
Yes	46	17.1	6	17.1	10	13.7	7	11.5	5	19.2	18	24.3	4.76	(4) .312
No/no indication	223	82.9	29	82.9	63	86.3	54	88.5	21	80.8	56	75.7		

Note:

^a "2 or more" includes 2 or more of the 6 category offenses: Personal, Probation, Property, "Other," Status, and Drugs.

Table 8 Frequencies and Percents of Family Variables by Type of Current Commitment Offense (N = 269)

						TYPE (OF OF	FENSE							
	To	otal	Per: Only	sonal /	Prot Only	oation /	Prop Only		"Oth Only		2 or l	Moreª	<u>Chi Sc</u>	quare	,
	N		N		Ν		Ν		Ν		Ν				
VARIABLES	(269)	C%	(35)	C%	(73)	C%	(61)	C%	(26)	C%	(74)	C%	χ²	(df)	р
Family Status															
Intact biological parents	6												178.29	(1)<	<.0001
Yes	25	9.3	2	5.7	9	12.3	5	8.2	1	3.9	8	10.8	2.53	• •	.6386
No/no indication	244	90.7	33	94.3	64	87.7	56	91.8	25	96.2	66	89.2		. ,	
Single parent													11.25	(1)	.0008
Yes	107	39.8	12	34.3	23	31.5	28	45.9	11	42.3	33	44.6	4.27	(4)	.3711
No/no indication	162	60.2	23	65.7	50	68.5	33	54.1	15	57.7	41	55.4			
Blended Family													113.85	• •	<.0001
Yes	47	17.5	6	17.1	12	16.4	10	16.4	6	23.1	13	17.6	0.67	(4)	.9546
No/no indication	222	82.5	29	82.9	61	83.6	51	83.6	20	76.9	61	82.4			
Lives with relatives									_	~~~~	_		138.47	• • •	<.0001
Yes	38	14.1	3	8.6	13	17.8	8	13.1	7	26.9	7	9.5	6.60	(4)	.1588
No/no indication	231	85.9	32	91.4	60	82.2	53	86.9	19	73.1	67	90.5	050.04	(4)	.0004
Adoptive home	4	4 5	4	20	4	4.4	4	1.0	0	0.0	4	4 4	253.24	• •	<.0001
Yes No/no indication	4 265	1.5 98.5	1 34	2.9 97.1	1 72	1.4 98.6	1 60	1.6 98.4	0 26	0.0 100.0	1 73	1.4 98.7	0.87	(4)	.9293
Foster home	200	90.0	34	97.1	12	90.0	00	90.4	20	100.0	13	90.7	241.73	(1)	- 0001
Yes	7	2.6	1	2.9	3	4.1	0	0.0	0	0.0	3	4.1	3.60	• •	<.0001 .4624
No/no indication	262	2.0 97.4	34	2.9 97.1	70	4.1 95.9	61	100.0	26	100.0	71	96.0	3.00	(4)	.4024
Temporary placement	202	37.4	54	57.1	10	30.9	01	100.0	20	100.0	71	90.0	257.13	(1)-	<.0001
Yes	3	1.1	0	0.0	0	0.0	2	3.3	0	0.0	1	1.4	4.14	• • •	.3877
No/no indication	266	98.9			73	100.0	59	96.7	26	100.0	73	98.7		(-)	.0011
	200	00.0		100.0	10	100.0	00	00.7	20	100.0	10	00.1			
Homeless													261.06	(1)<	<.0001
Yes	2	0.7	0	0.0	0	0.0	0	0.0	0	0.0	2	2.7	5.31	(4)	.2570
No/no indication	267	99.3	35	100.0	73	100.0	61	100.0	26	100.0	72	97.3			
Other													132.79	• •	
Yes	40	14.9	6	17.1	10	13.7	8	13.1	6	23.1	10	13.5	1.86	(4)	.7612
No/no indication	229	85.1	29	82.9	63	86.3	53	86.9	20	76.9	64	86.5			

Note:

^a "2 or more" includes 2 or more of the 6 category offenses: Personal, Probation, Property, "Other," Status, and Drugs.

	Tc	otal	Pers Only	ional	Prot Only	oation	Prop Only	erty	"Oth Only		<u>2 or</u>	More ^a	<u>Chi Sq</u>	uare ^b	
	N		N		N		N		N		N				
VARIABLES	(269)	C%	(35)	C%	(73)	C%	(61)	C%	(26)	C%	(74)	C%	χ²	(df)	р
Employment Status of Primary	/														
Family Supporter															
Unemployed													208.81	(1)	<.0001
Yes	16	6.0	1	2.9	6	8.2	5	8.2	2	7.7	2	2.7	3.36	(4)	.5000
No/no indication	253	94.1	34	97.1	67	91.8	56	91.8	24	92.3	72	97.3			
Military, active duty													245.54	(1)	<.0001
Yes	6	2.2	0	0.0	3	4.1	2	3.3	0	0.0	1	1.4	3.14	(4)	.5341
No/no indication	263	97.8	35	100.0	70	95.9	59	96.7	26	100.0	73	98.7			
Physical labor													249.37	(1)	<.0001
Yes	5	1.9	0	0.0	2	2.7	1	1.6	0	0.0	2	2.7	1.77	(4)	.7778
No/no indication	264	98.1	35	100.0	71	97.3	60	98.4	26	100.0	72	97.3		. ,	
Clerical													265.01	(1)	<.0001
Yes	1	0.4	0	0.0	0	0.0	0	0.0	0	0.0	1	1.4	2.65	(4)	.6189
No/no indication	268	99.6	35	100.0	73	100.0	61	100.0	26	100.0	73	98.7		()	
Custodial/housekeeping													257.13	(1)	<.0001
Yes	3	1.1	1	2.9	0	0.0	0	0.0	0	0.0	2	2.7	4.46	• • •	.3475
No/no indication	266	98.9	34	97.1	73	100.0	61	100.0	26	100.0	72	97.3		()	
Supervisory/managerial				••••			•				. –		261.06	(1)	<.0001
Yes	2	0.7	0	0.0	1	1.4	1	1.6	0	0.0	0	0.0	2.06	(4)	.7242
No/no indication	267	99.3	35	100.0	72	98.6	60	98.4	26	100.0	74	100.0		(')	
Proprietor													249.37	(1)	<.0001
Yes	5	1.9	0	0.0	2	2.7	1	1.6	1	3.9	1	1.4	1.66	(4)	.7985
No/no indication	264	98.1	35	100.0	71	97.3	60	98.4	25	96.2	73	98.7		()	
Educator (college, univ.)	20.	00	00			0110		00.1	20	00.2			na	na	na
Yes	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	na	na	na
No/no indication	269	100.0	35	100.0	73	100.0	61	100.0	26	100.0	74	100.0		na	
Executive	200		00				0.		20		• •		265.01	(1)	<.0001
Yes	1	0.4	0	0.0	0	0.0	0	0.0	0	0.0	1	1.4	2.65	• • •	.6189
No/no indication	268	99.6	35	100.0	73	100.0	61	100.0	26	100.0	73	98.7	2.00	()	.0100
Other	200	0010	00				0.		20				22.04	(1)	<.0001
Yes	96	35.7	11	31.4	23	31.5	23	37.7	11	42.3	28	37.8	1.59	• • •	.8113
No/no indication	173	64.3	24	68.6	50	68.5	38	62.3	15	57.7	46	62.2	1.00	(+)	.0110
Teenage Parent	.75	04.0	24	50.0	50	50.0	50	52.5	10	01.1	40	52.2	171.84	(1)	<.0001
Yes	27	10.0	2	5.7	7	9.6	6	9.8	2	7.7	10	13.5	1.89	(4)	.7556
No/no indication	242	90.0	33	94.3	, 66	90.4	55	90.2	24	92.3	64	86.5	1.09	(+)	.1550
	242	90.0	55	34.3	00	50.4	55	90.2	24	32.3	04	00.0			
Family Psychiatric History													18.74	(1)	<.0001
Yes	99	36.8	11	31.4	30	41.1	22	36.1	6	23.1	30	40.5	3.58	(4)	.4661
No/no indication	170	63.2	24	68.6	43	58.9	39	63.9	20	76.9	44	59.5		. /	
Family History of Incarceration													103.68	(1)	<.0001
Yes	51	19.0	7	20.0	16	21.9	17	27.9	1	3.9	10	13.5	8.89	(4)	.0640
No/no indication	218	81.0	28	80.0	57	78.1	44	72.1	25	96.2	64	86.5		. /	

Table 9 Frequencies and Percents of Family Variables by Type of Current Commitment Offense (N = 269) TYPE OF OFFENSE

Note: a "2 or more" includes 2 or more of the 6 category offenses: Personal, Probation, Property, "Other," Status, and Drugs.

^b For each variable, the first chi square refers to the total; the second chi square refers to the interaction between the variable and

type of offense. Chi square analyses involving cells of 5 or less should be interpreted with caution.

Table 10 Means, Standard Deviations, and N Sizes of Child Development/Health Variables By Type of Curent Commitment Offense

				TYPE OF	OFFENS	E						
		Perso	nal Proba									
	Tot	Only al (G1)	Only (G2)	Only (G3)	Only (G4)	2 or M (G5)			sis of \	/ariano	ce (ANOVA)	
VARIABLES	Mean (SD)	Mean N (SD)	Mean N (SD)		Mean N (SD)	Mean N (SD)	N	F	(df)	p	R ²	N-K Diff. ^b
Birth Weight (in ounces)	87.85 (30.15)	184 89.14 (22.20)		54 91.76 (30.77)			44	0.38 (4	, 179)	.8221	.008	ns

Note: ^a "2 or more" includes 2 or more of the 6 category offenses: Personal, Probation, Property, "Other," Status, and Drugs. ^b Newman-Keuls subsequent tests; ns = not significant.

						TYPE	OF OF	FENSE	1						
	<u> </u>	otal	Per Onl	sonal y	Prot Only	oation	Prop Only		"Oth Only		<u>2 or</u>	More ^a	Chi So	quare ^b	
	Ν		N		N		Ν		Ν		Ν				
VARIABLES	(269)	C%	(35)	C%	(73)	C%	(61)	C%	(26)	C%	(74)	C%	χ^2	(df)	p
Prenatal Complications													181.57	(1) <.0	000
Yes	24	8.9	1	2.9	7	9.6	8	13.1	2	7.7	6	8.1	3.05	(4) .5	549
No/no indication	245	91.1	34	97.1	66	90.4	53	86.9	24	92.3	68	91.9			
Perinatal/Delivery Compli	cations												208.81	(1) <.0	000
Yes	16	6.0	0	0.0	7	9.6	5	8.2	1	3.9	3	4.1	5.17	(4) .2	269
No/no indication	253	94.1	35	100.0	66	90.4	56	91.8	25	96.2	71	96.0			

 Table 11

 Frequencies and Percents of Child Development/Health Variables by Type of Current Commitment Offense (N = 269)

Note:

^a "2 or more" includes 2 or more of the 6 category offenses: Personal, Probation, Property, "Other," Status, and Drugs.

						TTPE	OF OF	FENSE							
	T	otal	Per	sonal V	Pro Onl	bation y	Prop Only	oerty	"Otł Only		<u>2 or</u>	More ^a	<u>Chi So</u>	quare	
VARIABLES	N (269)	C%	N (35)	C %	N (73)	C%	N (61)	C %	N (26)	C %	N (74)	C %	χ^2	(df)	p
Perinatal Status													400.47	(4)	0004
Born out of wedlock	2.0		2	0.0	10	40.7	0	0.0		45 4	4 5	00.0	138.47		.0001
Yes No/no indication	38 231	14.1 85.9	3 32	8.6 91.4	10 63	13.7 86.3	6 55	9.8 90.2	4 22	15.4 84.6	15 59	20.3 79.7	4.16	(4)	.3843
Never seen father	231	05.9	32	91.4	03	00.5	55	90.2	22	04.0	59	19.1	223.14	(1)	.0001
Yes	12	4.5	2	5.7	2	2.7	3	4.9	2	7.7	3	4.1	1.33	· · ·	.8559
No/no indication	257	95.5	33	94.3	71	97.3	58	95.1	24	92.3	71	96.0	1.55	(4)	.0555
Never seen mother	231	95.5	55	54.5	7 1	97.5	50	95.1	24	92.5	11	90.0	261.06	(1)	.0001
Yes	2	0.7	0	0.0	1	1.4	0	0.0	0	0.0	1	1.4	1.67		.7957
No/no indication	267	99.3	35	100.0	72	98.6	61	100.0	26	100.0	73	98.7	1.07	(4)	.1951
Carries father's name	207	99.5	55	100.0	12	90.0	01	100.0	20	100.0	15	90.7	5.09	(1)	.0241
Yes	116	43.1	16	45.7	32	43.8	27	44.3	8	30.8	33	44.6	1.83	· · ·	.7677
No/no indication	153	56.9	19	54.3	41	56.2	34	55.7	18	69.2	41	55.4	1.00	(-)	
Carries mother's name	155	30.9	19	54.5	41	50.2	54	55.7	10	09.2	41	55.4	159.29	(1)	.0001
Yes	31	11.5	2	5.7	11	15.1	4	6.6	3	11.5	11	14.9	4.34		.3615
No/no indication	238	88.5	33	94.3	62	84.9	57	93.4	23	88.5	63	85.1	4.54	(4)	.3013
Other	200	00.5	55	34.5	02	04.5	57	33.4	20	00.0	05	00.1	230.49	(1)	.0001
Yes	10	3.7	1	2.9	3	4.1	1	1.6	2	7.7	3	4.1	2.01		.7338
No/no indication	259	96.3	34	97.1	70	95.9	60	98.4	24	92.3	71	96.0	2.01	(-)	.7550
Premature Delivery	200	30.5	54	37.1	10	30.3	00	30.4	24	32.5	11	30.0	237.95	(1)	.0001
Yes	8	3.0	0	0.0	5	6.9	2	3.3	0	0.0	1	1.4	6.36	. ,	.1736
No/no indication	261	97.0		100.0	68	93.2	59	96.7	26	100.0	73	98.7	0.00	(+)	. 17 00
	201	57.0	00	100.0	00	50.2	00	50.7	20	100.0	10	50.7			
Accidental Injuries													3.57	(1)	.0587
Yes	119	44.2	8	22.9	33	45.2	27	44.3	10	38.5	41	55.4	10.61		.0314
No/no indication	150	55.8	27	77.1	40	54.8	34	55.7	16	61.5	33	44.6		(.)	
		00.0				0.10	0.	0011		0.10	00				
Loss of Consciousness													162.38	(1)	.0001
Yes	30	11.2	3	8.6	9	12.3	8	13.1	3	11.5	7	9.5	0.79		.9395
No/no indication	239	88.9	32	91.4	64	87.7	53	86.9	23	88.5	67	90.5		()	
Physical Deformity													253.24	(1) <	.0001
Yes	4	1.5	0	0.0	1	1.4	1	1.6	1	3.9	1	1.4	1.54	(4)	.8192
No/no indication	265	98.5	35	100.0	72	98.6	60	98.4	25	96.2	73	98.7		. ,	
Deformity													na	na	na
Yes	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	na	na	na
No/no indication	269	100.0	35	100.0	73	100.0	61	100.0	26	100.0	74	100.0			
Physical Handicap(s)													249.37	(1) <	.0001
Yes	5	1.9	1	2.9	2	2.7	2	3.3	0	0.0	0	0.0	3.07	(4)	.5462
No/no indication	264	98.1	34	97.1	71	97.3	59	96.7	26	100.0	74	100.0			
Past Significant Illness						_							106.17	· · ·	.0001
Yes	50	18.6	5	14.3	19	26.0	10	16.4	6	23.1	10	13.5	4.90	(4)	.2980
No/no indication	219	81.4	30	85.7	54	74.0	51	83.6	20	76.9	64	86.5			
Surgical Cond. & Operation													144.27		.0001
Yes	36	13.4	3	8.6	10	13.7	12	19.7	2	7.7	9	12.2	3.61	(4)	.4616
No/no indication	233	86.6	32	91.4	63	86.3	49	80.3	24	92.3	65	87.8			
Note:			. .			-		-	-		~				

Table 12 Frequencies and Percents of Child Development/Health Variables by Type of Current Commitment Offense (N = 269)

TYPE OF OFFENSE

^a "2 or more" includes 2 or more of the 6 category offenses: Personal, Probation, Property, "Other," Status, and Drugs.

Table 13 Frequencies and Percents of Special Education by Type of Current Commitment Offense (N = 269)

						TYPE	OF OF	FENSE							
	Tc	otal	Pers Only	sonal /	Prot Only	oation /	Prop Only		"Oth Only		<u>2 or</u>	More ^a	Chi So	quare⁵	
VARIABLES	N (269)	C%	N (35)	C%	N (73)	C%	N (61)	C%	N (26)	C%	N (74)	C%	χ^2	(df)	р
Special Education Yes No/no indication	53 216	19.7 80.3	4 31	11.4 88.6	20 53	27.4 72.6	10 51	16.4 83.6	4 22	15.4 84.6	15 59	20.3 79.7	98.77 4.99	• •	.0001 .2883

^a "2 or more" includes 2 or more of the 6 category offenses: Personal, Probation, Property, "Other," Status, and Drugs.

Table 14 Frequencies and Percents of Violence Variables by Type of Current Commitment Offense (N = 269)

						TYPE	OF OF	FENSE							
	<u> </u>	otal	Pers Only	sonal /	Prot Only	oation /	Prop Only	erty	"Oth Only		<u>2 or</u>	More ^a	<u>Chi S</u>	quare	b
VARIABLES	N (269)	C%	N (35)	C%	N (73)	C%	N (61)	C%	N (26)	C%	N (74)	C%	χ^2	(df)	р
Violence to Self & Others															
Self-victim													0.09	• • •	.7605
Yes	137	50.9	24	68.6	34	46.6	24	39.3	14	53.9	41	55.4	8.87	(4)	.0644
No/no indication	132	49.1	11	31.4	39	53.4	37	60.7	12	46.2	33	44.6			
Self-perpetrator													6.87	• • •	.0087
Yes	113	42.0	16	45.7	31	42.5	20	32.8	13	50.0	33	44.6	3.22	(4)	.5221
No/no indication	156	58.0	19	54.3	42	57.5	41	67.2	13	50.0	41	55.4			
Other (non-self)													101.21	• • •	<.0001
Yes	52	19.3	7	20.0	16	21.9	10	16.4	5	19.2	14	18.9	0.67	(4)	.9551
No/no indication	217	80.7	28	80.0	57	78.1	51	83.6	21	80.8	60	81.1			
Unspecified violence													15.71	• • •	<.0001
Yes	102	37.9	12	34.3	23	31.5	23	37.7	15	57.7	29	39.2	5.84	(4)	.2113
No/no indication	167	62.1	23	65.7	50	68.5	38	62.3	11	42.3	45	60.8			
Any violence													73.91	• • •	<.0001
Yes	205	76.2	29	82.9	54	74.0	38	62.3	25	96.2	59	79.7	13.78	(4)	.0080
No/no indication	64	23.8	6	17.1	19	26.0	23	37.7	1	3.9	15	20.3			

Note:

^a "2 or more" includes 2 or more of the 6 category offenses: Personal, Probation, Property, "Other," Status, and Drugs.

Table 15
Frequencies and Percents of Violence Variables by Type of Current Commitment Offense (N = 269)

						TYPE	OF OF	FENSE							
	Tc	tal	Pers Only		Prot Only	oation /	Prop Only		"Oth Only		<u>2 or</u>	More ^a	<u>Chi Sc</u>	quare□	
VARIABLES	N (269)	C%	N (35)	C%	N (73)	C%	N (61)	C%	N (26)	C%	N (74)	C%	χ^2	(df)	p
Gang Involvement Yes No/no indication	44 225	16.4 83.6	5 30	14.3 85.7	12 61	16.4 83.6	12 49	19.7 80.3	5 21	19.2 80.8	10 64	13.5 86.5	121.79 1.19	• • •	.0001 .8790

Table 16
Means, Standard Deviations, and N Sizes of Substanse Use Variables By Type of Current Commitment Offense

				TYPE OF	OFFENSE						
		Perso	nal Proba	atior Prope	erty "Other						
	Tof	Only tal (G1)	Only (G2)	Only (G3)	Only (G4)	2 or M (G5)		lucio of \	lorion		`
							Ana	IYSIS OI	variano	ce (ANOVA	<u>) </u>
VARIABLES	Mean (SD)	Mean N (SD)	Mean N (SD)	Mean N (SD)	Mean N (SD)	Mean N (SD)	N F	(df)	p	R^2	N-K Diff. ^b
Age of Substance Use											
Cigarettes	11.85 (2.15)	83 12.13 (1.64)	8 11.32 (2.03)	2211.54 (2.82)	13 11.69 (2.21)	13 12.43 (1.97)	27 0.94	(4, 78)	.4450	.046	ns
Alcohol	12.52 (2.42)	149 12.60 (1.90)	18 12.39 (2.60)	4212.28 (3.11)	30 12.07 (2.71)	14 12.89 (1.80)	45 0.48	(4, 144)	.7517	.013	ns
Marijuana	12.16 (2.10)	181 12.64 (1.87)	21 12.56 (1.73)	5411.84 (2.45)		18 12.17 (2.16)	51 2.21	(4, 176)	.0702	.048	G1, G2>G4
Cocaine	13.96 (1.82)	26 14.40 (1.14)	5 14.20 (3.49)	513.00 (1.22)		2 14.00 (1.22)	9 0.44	(4, 21)	.7759	.078	ns
Methamphetamine	14.08 (1.93)	93 15.00 (1.10)	6 14.00 (1.91)	2814.11 (1.57)	23 14.55 (1.29)	11 13.70 (2.55)	25 0.75	(4, 88)	.5617	.033	ns
Paints/glue	13.13 (0.95)	8 na na	0 13.00 (0.82)	414.25 (0.35)	2 12.50 (0.00)	1 12.00 (0.00)	1 2.67	(3, 4)	.1835	.667	ns
Mushroom	13.60 (2.41)	15 13.00 (0.00)	1 14.00 (0.00)	112.83 (2.99)	6 13.00 (1.41)	2 14.80 (2.39)	5 0.43	(4, 10)	.7843	.147	ns
LSD	12.67 (2.13)	15 13.00 (0.00)	1 11.67 (1.53)	312.75 (2.06)	4 13.00 (1.41)	2 13.00 (3.16)	5 0.16	(4, 10)	.9515	.062	ns

Note: ^a "2 or more" includes 2 or more of the 6 category offenses: Personal, Probation, Property, "Other," Status, and Drugs. ^b Newman-Keuls subsequent tests; ns = not significant.

<u>To</u> N 69) 259 10	96.3 3.7	<u>Only</u> N (35) 34	C%	Prol Onl N (73)	bation y C%	Prop Only N (61)	erty C%	"Oth <u>Only</u> N (26)		<u>2 or</u> <i>N</i> (74)	More ^a	<u>Chi So</u> χ²	quare [⊳] (<i>d</i> f)	
69) 259	96.3	(35)			C%		C%		C%		C%	γ^2	(df)	
259	96.3	34		(73)	C%	(61)	C%	(26)	C%	(74)	C%	γ^2	(df)	
												x	()	p
												230.49	(1)<.	0001
10	3.7		97.1	73	100.0	57	93.4	24	92.3	71	96.0	5.44	· · /	2454
		1	2.9	0	0.0	4	6.6	2	7.7	3	4.1		()	
												49.16	(1)<.	0001
192	71.4	25	71.4	55	75.3	42	68.9	19	73.1	51	68.9	1.01	(4).	9086
77	28.6	10	28.6	18	24.7	19	31.2	7	26.9	23	31.1		. ,	
												141.36	(1)<.	0001
232	86.3	31	88.6	62	84.9	51	83.6	21	80.8	67	90.5	2.43	(4).	6569
37	13.8	4	11.4	11	15.1	10	16.4	5	19.2	7	9.5		. ,	
												178.29	(1)<.	0001
244	90.7	30	85.7	70	95.9	55	90.2	22	84.6	67	90.5	4.53		3390
25	9.3	5	14.3	3	4.1	6	9.8	4	15.4	7	9.5		. ,	
												73.91	(1)<.	0001
64	23.8	8	22.9	19	26.0	13	21.3	4	15.4	20	27.0	1.87	(4).	7604
205	76.2	27	77.1	54	74.0	48	78.7	22	84.6	54	73.0		• • •	
												1.64	(1).	2004
145	53.9	14	40.0	44	60.3	31	50.8	16	61.5	40	54.1	4.76	(4).	3129
124	46.1	21	60.0	29	39.7	30	49.2	10	38.5	34	46.0		• • •	
												181.57	(1)<.	0001
24	8.9	1	2.9	8	11.0	5	8.2	3	11.5	7	9.5	2.24	• •	6914
245	91.1	34	97.1	65	89.0	56	91.8	23	88.5	67	90.5		()	
												106.17	(1)<.	0001
50	18.6	6	17.1	12	16.4	15	24.6	4	15.4	13	17.6	1.95	· · /	7448
219	81.4	29	82.9	61	83.6	46	75.4	22	84.6	61	82.4		、 /	
												127.23	(1)<.	0001
42	15.6	5	14.3	12	16.4	10	16.4	4	15.4	11	14.9	0.15	· · /	9975
227	84.4	30	85.7	61	83.6	51	83.6	22	84.6	63	85.1		、 , -	
2 2 1 1 2 2	77 32 37 44 25 64 20 5 45 24 24 50 19 42	77 28.6 32 86.3 37 13.8 44 90.7 25 9.3 64 23.8 05 76.2 45 53.9 24 8.9 45 91.1 50 18.6 119 81.4 42 15.6	77 28.6 10 32 86.3 31 37 13.8 4 44 90.7 30 25 9.3 5 64 23.8 8 05 76.2 27 45 53.9 14 24 46.1 21 24 8.9 1 45 91.1 34 50 18.6 6 19 81.4 29 42 15.6 5	77 28.6 10 28.6 32 86.3 31 88.6 37 13.8 4 11.4 44 90.7 30 85.7 25 9.3 5 14.3 64 23.8 8 22.9 05 76.2 27 77.1 45 53.9 14 40.0 24 46.1 21 60.0 24 8.9 1 2.9 45 91.1 34 97.1 50 18.6 6 17.1 19 81.4 29 82.9 42 15.6 5 14.3	77 28.6 10 28.6 18 32 86.3 31 88.6 62 37 13.8 4 11.4 11 44 90.7 30 85.7 70 25 9.3 5 14.3 3 64 23.8 8 22.9 19 05 76.2 27 77.1 54 45 53.9 14 40.0 44 24 46.1 21 60.0 29 24 8.9 1 2.9 8 45 91.1 34 97.1 65 50 18.6 6 17.1 12 91.4 29 82.9 61 42 15.6 5 14.3 12	77 28.6 10 28.6 18 24.7 32 86.3 31 88.6 62 84.9 37 13.8 4 11.4 11 15.1 44 90.7 30 85.7 70 95.9 25 9.3 5 14.3 3 4.1 64 23.8 8 22.9 19 26.0 05 76.2 27 77.1 54 74.0 45 53.9 14 40.0 44 60.3 24 46.1 21 60.0 29 39.7 24 8.9 1 2.9 8 11.0 45 91.1 34 97.1 65 89.0 50 18.6 6 17.1 12 16.4 19 81.4 29 82.9 61 83.6 42 15.6 5 14.3 12 16.4	77 28.6 10 28.6 18 24.7 19 32 86.3 31 88.6 62 84.9 51 37 13.8 4 11.4 11 15.1 10 44 90.7 30 85.7 70 95.9 55 25 9.3 5 14.3 3 4.1 6 64 23.8 8 22.9 19 26.0 13 05 76.2 27 77.1 54 74.0 48 45 53.9 14 40.0 44 60.3 31 24 46.1 21 60.0 29 39.7 30 24 8.9 1 2.9 8 11.0 5 45 91.1 34 97.1 65 89.0 56 50 18.6 6 17.1 12 16.4 15 19 81.4 29 82.9 61 83.6 46 42 15.6 5 14.3	77 28.6 10 28.6 18 24.7 19 31.2 32 86.3 31 88.6 62 84.9 51 83.6 37 13.8 4 11.4 11 15.1 10 16.4 44 90.7 30 85.7 70 95.9 55 90.2 25 9.3 5 14.3 3 4.1 6 9.8 64 23.8 8 22.9 19 26.0 13 21.3 05 76.2 27 77.1 54 74.0 48 78.7 45 53.9 14 40.0 44 60.3 31 50.8 24 46.1 21 60.0 29 39.7 30 49.2 24 8.9 1 2.9 8 11.0 5 8.2 91.1 34 97.1 65 89.0 56 91.8 50 18.6 6 17.1 12 16.4 15 24.6	77 28.6 10 28.6 18 24.7 19 31.2 7 32 86.3 31 88.6 62 84.9 51 83.6 21 37 13.8 4 11.4 11 15.1 10 16.4 5 44 90.7 30 85.7 70 95.9 55 90.2 22 25 9.3 5 14.3 3 4.1 6 9.8 4 64 23.8 8 22.9 19 26.0 13 21.3 4 64 23.8 8 22.9 19 26.0 13 21.3 4 65 76.2 27 77.1 54 74.0 48 78.7 22 45 53.9 14 40.0 44 60.3 31 50.8 16 24 46.1 21 60.0 29 39.7 30 49.2 10 24 8.9 1 2.9 8 11.0 5 8.2	77 28.6 10 28.6 18 24.7 19 31.2 7 26.9 32 86.3 31 88.6 62 84.9 51 83.6 21 80.8 37 13.8 4 11.4 11 15.1 10 16.4 5 19.2 44 90.7 30 85.7 70 95.9 55 90.2 22 84.6 25 9.3 5 14.3 3 4.1 6 9.8 4 15.4 64 23.8 8 22.9 19 26.0 13 21.3 4 15.4 65 76.2 27 77.1 54 74.0 48 78.7 22 84.6 45 53.9 14 40.0 44 60.3 31 50.8 16 61.5 24 46.1 21 60.0 29 39.7 30 49.2 10 38.5 24 8.9 1 2.9 8 11.0 5 8.2	77 28.6 10 28.6 18 24.7 19 31.2 7 26.9 23 32 86.3 31 88.6 62 84.9 51 83.6 21 80.8 67 37 13.8 4 11.4 11 15.1 10 16.4 5 19.2 7 44 90.7 30 85.7 70 95.9 55 90.2 22 84.6 67 25 9.3 5 14.3 3 4.1 6 9.8 4 15.4 7 64 23.8 8 22.9 19 26.0 13 21.3 4 15.4 20 05 76.2 27 77.1 54 74.0 48 78.7 22 84.6 54 45 53.9 14 40.0 44 60.3 31 50.8 16 61.5 40 24 46.1 21 60.0 29 39.7 30 49.2 10 38.5 34 24 8.9 1 2.9 8 11.0 5 8.2 3 11.5 7 50 18.6 6 17.1 12 16.4 15 24.6 4 15.4 13 19 81.4 29 82.9 61 83.6 46 75.4 22 84.6 61 42 15.6 5 14.3 12 16.4 10 16.4 <t< td=""><td>77$28.6$$10$$28.6$$18$$24.7$$19$$31.2$$7$$26.9$$23$$31.1$$32$$86.3$$31$$88.6$$62$$84.9$$51$$83.6$$21$$80.8$$67$$90.5$$37$$13.8$$4$$11.4$$11$$15.1$$10$$16.4$$5$$19.2$$7$$9.5$$44$$90.7$$30$$85.7$$70$$95.9$$55$$90.2$$22$$84.6$$67$$90.5$$25$$9.3$$5$$14.3$$3$$4.1$$6$$9.8$$4$$15.4$$7$$9.5$$64$$23.8$$8$$22.9$$19$$26.0$$13$$21.3$$4$$15.4$$20$$27.0$$05$$76.2$$27$$77.1$$54$$74.0$$48$$78.7$$22$$84.6$$54$$73.0$$45$$53.9$$14$$40.0$$44$$60.3$$31$$50.8$$16$$61.5$$40$$54.1$$24$$46.1$$21$$60.0$$29$$39.7$$30$$49.2$$10$$38.5$$34$$46.0$$24$$8.9$$1$$2.9$$8$$11.0$$5$$8.2$$3$$11.5$$7$$9.5$$50$$18.6$$6$$17.1$$12$$16.4$$15$$24.6$$4$$15.4$$13$$17.6$$81.4$$29$$82.9$$61$$83.6$$46$$75.4$$22$<</td><td>$\begin{array}{cccccccccccccccccccccccccccccccccccc$</td><td>$\begin{array}{cccccccccccccccccccccccccccccccccccc$</td></t<>	77 28.6 10 28.6 18 24.7 19 31.2 7 26.9 23 31.1 32 86.3 31 88.6 62 84.9 51 83.6 21 80.8 67 90.5 37 13.8 4 11.4 11 15.1 10 16.4 5 19.2 7 9.5 44 90.7 30 85.7 70 95.9 55 90.2 22 84.6 67 90.5 25 9.3 5 14.3 3 4.1 6 9.8 4 15.4 7 9.5 64 23.8 8 22.9 19 26.0 13 21.3 4 15.4 20 27.0 05 76.2 27 77.1 54 74.0 48 78.7 22 84.6 54 73.0 45 53.9 14 40.0 44 60.3 31 50.8 16 61.5 40 54.1 24 46.1 21 60.0 29 39.7 30 49.2 10 38.5 34 46.0 24 8.9 1 2.9 8 11.0 5 8.2 3 11.5 7 9.5 50 18.6 6 17.1 12 16.4 15 24.6 4 15.4 13 17.6 81.4 29 82.9 61 83.6 46 75.4 22 <	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

Table 17

Frequencies and Percents of Substance Use Variables by Type of Current Commitment Offense (N = 269)

Note:

^a "2 or more" includes 2 or more of the 6 category offenses: Personal, Probation, Property, "Other," Status, and Drugs.

Table 18

Frequencies and Percents of Mental Health Variables by Type of Current Commitment Offense (N = 269)

						TYPE	OF OF	FENSE						
	T	otal	Pers Only	sonal /	Prol Only	oation /	Prop Only	perty	"Oth Only		<u>2 or</u>	More ^a	<u>Chi Sc</u>	quare⁵
	N		N		N		N		Ν		Ν			
/ARIABLES	(269)	C%	(35)	C%	(73)	C%	(61)	C%	(26)	C%	(74)	C%	χ²	(df) p
Axis I Information													350.38	(5)<.000
Conduct disorder only	12	4.5	0	0.0	3	4.1	4	6.6	2	7.7	3	4.1	20.46	(20) .429
Substance use only	24	8.9	2	5.7	10	13.7	6	9.8	1	3.8	5	6.8		
Comorbid (at least CD or S		57.2	17	48.6	43	58.9	29	47.5	15	57.7	50	67.6		
All others w/diagnosis	25	9.3	4	11.4	5	6.8	6	9.8	3	11.5	7	9.5		
No diagnosis	2	0.7	1	2.9	1	1.4	0	0.0	0	0.0	0	0.0		
No psychiatric evaluation	or 52	19.3	11	31.4	11	15.1	16	26.2	5	19.2	9	12.2		
Past Psych. Hospitalization													71.83	(1)<.000
Yes	65	24.2	8	22.9	24	32.9	11	18.0	4	15.4	18	24.3	5.40	(4) .248
No/no indication	204	75.8	27	77.1	49	67.1	50	82.0	22	84.6	56	75.7		
School/Clinic History													45.80	(1)<.000
Yes	190	70.6	23	65.7	56	76.7	41	67.2	20	76.9	50	67.6	2.88	(4) .577
No/no indication	79	29.4	12	34.3	17	23.3	20	32.8	6	23.1	24	32.4		
sychotropic Medications													5.09	(1) .024
Yes	116	43.1	14	40.0	33	45.2	25	41.0	11	42.3	33	44.6	0.45	(4) .977
No/no indication	153	56.9	21	60.0	40	54.8	36	59.0	15	57.7	41	55.4		
Suicidal Information														
Suicidal													215.91	(1)<.000
Yes	14	5.2	3	8.6	5	6.9	2	3.3	1	3.9	3	4.1	1.96	(4) .743
No/no indication	255	94.8	32	91.4	68	93.2	59	96.7	25	96.2	71	96.0		
Suicidal Ideation													111.26	(1)<.000
Yes	48	17.8	8	22.9	17	23.3	11	18.0	5	19.2	7	9.5	5.66	(4) .226
No/no indication	221	82.2	27	77.1	56	76.7	50	82.0	21	80.8	67	90.5		
Suicide Attempt													98.77	(1)<.000
Yes	53	19.7	8	22.9	17	23.3	13	21.3	2	7.7	13	17.6	3.50	(4) .478
No/no indication	216	80.3	27	77.1	56	76.7	48	78.7	24	92.3	61	82.4		
Iomicidal													194.95	(1)<.000
Yes	20	7.4	2	5.7	4	5.5	4	6.6	1	3.9	9	12.2	3.51	(4) .475
No/no indication	249	92.6	33	94.3	69	94.5	57	93.4	25	96.2	65	87.8		
Psychotic													261.06	(1)<.000
Yes	2	0.7	0	0.0	0	0.0	0	0.0	0	0.0	2	2.7	5.31	(4) .257
No/no indication	267	99.3		100.0	73			100.0		0.0	72	97.3	5.01	(., .201

^a "2 or more" includes 2 or more of the 6 category offenses: Personal, Probation, Property, "Other," Status, and Drugs.

						TYPE	OF OF	FENSE							
	Total		Personal Only		Probation Only		Property Only		"Other" Only		<u>2 or</u>	More ^a	<u>Chi Square</u> [⊳]		
VARIABLES	N (269)	C%	N (35)	C%	N (73)	C%	N (61)	C%	N (26)	C%	N (74)	C%	χ^2	(df) p	D
Treatment Recommended	1												135.62	(1)<.00	001
Yes	230	85.5	29	82.9	65	89.0	46	75.4	21	80.8	69	93.2	9.99	(4) .04	405
No/no indication	39	14.5	6	17.1	8	11.0	15	24.6	5	19.2	5	6.8			
Type of Treatment Recom													0.00	(4) 70	205
Individual psychothera		50.0	40	45 7	07	50 7	~~	45.0	4.5			4	0.09	(1) .76	
Yes	137	50.9	16	45.7	37	50.7	28	45.9	15	57.7	41	55.4	2.07	(4) .72	231
No/no indication	132	49.1	19	54.3	36	49.3	33	54.1	11	42.3	33	44.6	470.00	(4) 00	
Group psychotherapy	25	0.0			-	0.0		0.0		45.4	0	0.4	178.29	(1)<.00	
Yes No/no indication	25 244	9.3 90.7	4 31	11.4 88.6	7 66	9.6 90.4	4 57	6.6 93.4	4 22	15.4 84.6	6 68	8.1 91.9	2.01	(4) .73	346
Family psychotherapy	244	90.7	31	00.0	00	90.4	57	93.4	22	64.0	00	91.9	47.47	(1)<.00	101
Yes	78	29.0	7	20.0	23	31.5	14	23.0	7	26.9	27	36.5	47.47	(4) .31	
No/no indication	191	29.0 71.0	28	20.0 80.0	23 50	68.5	47	77.1	, 19	73.1	47	63.5	4.75	(4) .31	150
Sub. abuse Tx progra		71.0	20	00.0	50	00.5	47	77.1	19	75.1	47	03.5	14.75	(1) .00	101
Yes	166	61.7	16	45.7	46	63.0	33	54.1	17	65.4	54	73.0	9.46	(4) .00	
No/no indication	100	38.3	19	54.3	27	37.0	28	45.9	9	34.6	20	27.0	5.40	(4) .00	,00
Anger management	100	00.0	15	04.0	21	07.0	20	40.5	5	04.0	20	21.0	71.83	(1)<.00	001
Yes	65	24.2	9	25.7	16	21.9	10	16.4	11	42.3	19	25.7	7.02	(4) .13	
No/no indication	204	75.8	26	74.3	57	78.1	51	83.6	15	57.7	55	74.3	1.02	(1) .10	, 10
Psychopharmacothera		10.0	20	7 1.0	01	70.1	01	00.0	10	01.1	00	7 1.0	42.56	(1)<.00)01
Yes	81	30.1	9	25.7	22	30.1	15	24.6	7	26.9	28	37.8	3.43	(4) .48	
No/no indication	188	69.9	26	74.3	51	69.9	46	75.4	19	73.1	46	62.2	0.10	(.,	
Occup./rehab. Tx													249.37	(1)<.00	001
Yes	5	1.9	2	5.7	0	0.0	0	0.0	0	0.0	3	4.1	7.84	(4) .09	
No/no indication	264	98.1	33	94.3		100.0	61	100.0	26	100.0	71	96.0		(., .00	

Table 19
Frequencies and Percents of Treatment Recommended by Type of Current Commitment Offense (N = 269)
requencies and remembers of meaninement (N=209)

^a "2 or more" includes 2 or more of the 6 category offenses: Personal, Probation, Property, "Other," Status, and Drugs.

			TYPE OF OFFENSE												
	T	otal	Perso Only	onal	Proba Only	ation	Prope Only	erty	"Othe Only	er"	2 or 1	More ^a	Chi So	quare ^b	
VARIABLES	N (269)	C%	N (35)	C%	N (73)	C%	N (61)	C%	N (26)	C%	N (74)	C%	χ^2	(df)	p
Commitment Duration Majority Minority Other	49 51 169	18.2 19.0 62.8	4 8 23	11.4 22.9 65.7	13 14 46	17.8 19.2 63.0	7 11 43	11.5 18.0 70.5	4 5 17	15.4 19.2 65.4	21 13 40	28.4 17.6 54.1	105.3 [.] 8.66	· · ·	<.0001 .3717

Table 20 Frequencies and Percents of Legal Variables By Type of Current Commitment Offense (N = 269)

Note:

^a "2 or more" includes 2 or more of the 6 category offenses: Personal, Probation, Property, "Other," Status, and Drugs.

$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$														
VARIABLES (269) C% (35) C% (73) C% (61) C% (26) C% (74) C% χ^2 (df) p Disposition (N = 207) 1015.97 (6) < 0.001		T	otal				ation	•	. ,		er"	<u>2 or l</u>	More ^a	Chi Square ^b
Disposition (N = 207) 1015.97 (6) <.0001		Ν						Ν		Ν		Ν		2
Psych. hospital adoles52.413.400.000.015.035.421.45 (24) .6120Step down/specialty T:10.500.011.800.000.000.0Non-hospital res. Tx31.400.023.500.000.011.8Group home52.413.423.500.015.011.8Adoptive/foster home10.500.011.800.000.000.0Home to parent(s)19091.82793.14986.045100.01890.05191.1Other21.000.023.500.000.000.0Iome in independent living)00.011.800.015.000.010.94 (16) .8130On parole/probation136.313.758.836.5210.023.5Court discharge18890.82696.34986.04291.31785.05494.7Waivered to OCCC10.500.011.800.000.000.0	VARIABLES	(269)	C%	(35)	C%	(73)	C%	(61)	C%	(26)	C%	(74)	C%	χ^2 (df) p
Psych. hospital adoles52.413.400.000.015.035.421.45 (24) .6120Step down/specialty T:10.500.011.800.000.000.0Non-hospital res. Tx31.400.023.500.000.011.8Group home52.413.423.500.015.011.8Adoptive/foster home10.500.011.800.000.000.0Home to parent(s)19091.82793.14986.045100.01890.05191.1Other21.000.023.500.000.000.0Iome in independent living)00.011.800.015.000.010.94 (16) .8130On parole/probation136.313.758.836.5210.023.5Court discharge18890.82696.34986.04291.31785.05494.7Waivered to OCCC10.500.011.800.000.000.0	Disposition ($N = 207$)													1015.97 (6)<.0001
Step down/specialty T:10.500.011.800.000.000.0Non-hospital res. Tx31.400.023.500.000.011.8Group home52.413.423.500.015.011.8Adoptive/foster home10.500.011.800.000.000.0Home to parent(s)19091.82793.14986.045100.01890.05191.1Other21.000.023.500.000.000.0(none in independent living)00.011.800.015.000.010.94 (16) .8130On furlough21.000.011.800.015.000.010.94 (16) .8130On parole/probation136.313.758.836.5210.023.5Court discharge18890.82696.34986.04291.31785.05494.7Waivered to OCCC10.500.011.800.000.000.0	Psych. hospital adole	s 5	2.4	1	3.4	0	0.0	0	0.0	1	5.0	3	5.4	• •
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			0.5	0	0.0	1	1.8	0	0.0	0	0.0	0	0.0	
Group home 5 2.4 1 3.4 2 3.5 0 0.0 1 5.0 1 1.8 Adoptive/foster home 1 0.5 0 0.0 1 1.8 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0.0 0.0 0 0.0			1.4	0	0.0	2	3.5	0	0.0	0	0.0	1	1.8	
Adoptive/foster home 1 0.5 0 0.0 1 1.8 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0		5	2.4	1	3.4	2	3.5	0	0.0	1	5.0	1	1.8	
Home to parent(s) 190 91.8 27 93.1 49 86.0 45 100.0 18 90.0 51 91.1 Other 2 1.0 0 0.0 2 3.5 0 0.0 0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0	•	: 1	0.5	0	0.0	1	1.8	0	0.0	0	0.0	0	0.0	
Other 2 1.0 0 0.0 2 3.5 0 0.0 0 0.0 0 0.0 (none in independent living) 0 0.0 2 3.5 0 0.0 0 0.0 0 0.0 Legal Status at Discharge (N = 207) 651.14 (4) < .0001			91.8	27	93.1	49	86.0	45	100.0	18	90.0	51	91.1	
Legal Status at Discharge (N = 207) 651.14 (4) <.0001	• • • • •	2	1.0	0	0.0	2	3.5	0	0.0	0	0.0	0	0.0	
On furlough 2 1.0 0 0.0 1 1.8 0 0.0 1 5.0 0 0.0 10.94 (16) .8130 On parole/probation 13 6.3 1 3.7 5 8.8 3 6.5 2 10.0 2 3.5 Court discharge 188 90.8 26 96.3 49 86.0 42 91.3 17 85.0 54 94.7 Waivered to OCCC 1 0.5 0 0.0 1 1.8 0 0.0 0 0.0	(none in independent	living)												
On parole/probation 13 6.3 1 3.7 5 8.8 3 6.5 2 10.0 2 3.5 Court discharge 188 90.8 26 96.3 49 86.0 42 91.3 17 85.0 54 94.7 Waivered to OCCC 1 0.5 0 0.0 1 1.8 0 0.0 0 0.0	Legal Status at Discharg	e (N =	207)											651.14 (4)<.0001
Court discharge 188 90.8 26 96.3 49 86.0 42 91.3 17 85.0 54 94.7 Waivered to OCCC 1 0.5 0 0.0 1 1.8 0 0.0 0 0.0	On furlough	2	1.0	0	0.0	1	1.8	0	0.0	1	5.0	0	0.0	10.94 (16) .8130
Waivered to OCCC 1 0.5 0 0.0 1 1.8 0 0.0 0 0.0 0 0.0	On parole/probation	13	6.3	1	3.7	5	8.8	3	6.5	2	10.0	2	3.5	
	Court discharge	188	90.8	26	96.3	49	86.0	42	91.3	17	85.0	54	94.7	
Other 3 1.4 0 0.0 1 1.8 1 2.2 0 0.0 1 1.8	Waivered to OCCC	1	0.5	0	0.0	1	1.8	0	0.0	0	0.0	0	0.0	
	Other	3	1.4	0	0.0	1	1.8	1	2.2	0	0.0	1	1.8	

Table 21Frequencies and Percents of Legal Variables By Type of Current Commitment Offense

Note:

^a "2 or more" includes 2 or more of the 6 category offenses: Personal, Probation, Property, "Other," Status, and Drugs.

Table 22
Frequencies and Percents of Mental Health Diagnoses ($N = 269$)

	/	<u>All</u>	Youths With a Psychiat Evaluatio	
		Column	N	Column
MENTAL HEALTH DIAGNOSIS	(269)	%	(217)	%
Any Diagnosis	215	79.9	215	99.1
Disruptive Behavior Disorder	157	58.4	157	72.4
Attention-deficit/hyperactivity disorder	21	7.8	21	9.7
Oppositional defiant disorder	13	4.8	13	6.0
Conduct disorder	135	50.2	135	62.2
Not otherwise specified	2	0.7	2	0.9
Affective Disorders (AD)	51	19.0	51	23.5
Mood disorder	50	18.6	50	23.0
Anxiety disorder	2	0.7	2	0.9
Other	38	14.1	38	17.5
Adjustment disorder	20	7.4	20	9.2
All other diagnoses (other than substance)	19	7.1	19	8.8
Substance Abuse ^a	166	61.7	166	76.5
Nicotine only ^b	0	0.0	0	0.0
Alcohol only ^b	7	2.6	7	3.2
Marijuana only ^b	24	8.9	24	11.1
Other substances only ^b	5	1.9	5	2.3
Poly substance ^b	130	48.3	130	59.9
No Diagnosis	2	0.7	2	0.9
No Psychiatric Evaluation	52	19.3	na	na

^a Any substance abuse. ^b Could include non-substance abuse diagnoses. ₅₃

 Table 23

 Means, Standard Deviations, and N Sizes of Demographic Variables By Mental Health Diagnoses (N = 269)

				MENTAL HE	ALTH DIAG	NOSIS		
	Total	Conduct Disorder Only	Substanc Abuse Only	e Comorbid (at least Cl <u>or Sub.)</u>	D All Other Diagnoses	No s <u>Diagnosis</u>	No Psychiatric <u>Evaluatio</u> n	Analysis of Variance (ANOVA)
VARIABLES	Mean <i>(SD) N</i>	Mean <i>(SD) N</i>	Mean <i>(SD) N</i>	Mean <i>(SD) N</i>	Mean <i>(SD) N</i>	Mean <i>(SD) N</i>	Mean <i>(SD) N</i>	F (df) $p R^2$ N-K Diff. ^a
Age (in years) (at 1st commitme (07/01/99 to 06/3	· · · ·	16.39 12 (1.18)	17.52 24 (0.67)	16.81 154 (1.13)	16.46 25 (1.24)	16.48 2 (0.73)	16.81 52 (1.62)	2.34 (5, 263).0419.043 ns
Number of Admissior (07/01/99 to 06/3		1.08 12 (0.29)	1.25 24 (0.53)	1.18 154 (0.45)	1.16 25 (0.47)	1.00 2 (0.00)	1.06 52 (0.24)	1.05 (5, 263).3879.020 ns

^a Newman-Keuls subsequent tests; ns = not significant.

Table 24
Frequencies and Percents of Demographic Variables By Mental Health Diagnoses (N = 269)

			_				MEN	ITAL F	IEAL	TH DIA	GNC	SIS					
	<u> </u>	otal		iduct order	Sub Abu <u>Only</u>		(at le			Other gnoses	No s <u>Dia</u>	gnosis_		chiatric uation	<u>Chi Sq</u>	uare ^a	
	N		Ν		Ν		N		N		N		Ν				
VARIABLES	(269)	C%	(12)	C%	(24)	C%	(154)	C%	(25)	C%	(2)	C%	(52)	C%	χ^2	(df)	р
Gender																	
Male	226	84.0	12	100.0	23	95.8	127	82.5	21	84.0	2	100.0	41	78.9	6.47	(5)	.2632
Female	43	16.0	0	0.0	1	4.2	27	17.5	4	16.0	0	0.0	11	21.2		(-)	
Birth Place																	
Hawai'i	186	69.1	9	75.0	19	79.2	103	66.9	18	72.0	1	50.0	36	69.2	13.87	(15)	.5356
Mainland/U.S. territo	ry 51	19.0	2	16.7	3	12.5	33	21.4	4	16.0	1	50.0	8	15.4			
International	19	7.1	0	0.0	2	8.3	12	7.8	3	12.0	0	0.0	2	3.8			
No indication	13	4.8	1	8.3	0	0.0	6	3.9	0	0.0	0	0.0	6	11.5			
Ethnicity ($N = 268$)																	
Caucasian	20	7.5	0	0.0	3	12.5	10	6.5	3	12.0	0	0.0	4	7.8	16.54	(20)	.6825
Filipino	18	6.7	0	0.0	2	8.3	10	6.5	0	0.0	0	0.0	6	11.8			
Hawaiian/part-Hawai	iia 148	55.2	8	66.7	15	62.5	87	56.5	14	56.0	2	100.0	22	43.1			
Mixed non-Hawaiian	63	23.5	4	33.3	4	16.7	35	22.7	7	28.0	0	0.0	13	25.5			
Other non-mixed	19	7.1	0	0.0	0	0.0	12	7.8	1	4.0	0	0.0	6	11.8			

 Table 25

 Means, Standard Deviations, and N Sizes of Demographic Variables By Mental Health Diagnoses (N = 215)

					MENTA	LΗ	EALTH	DIAG	SNOSIS						
	Tota	<u>al _</u>	Condu Disoro Only (der	Subst Abuse Only (Э	Como e (at lea CD o <u>(G3)</u>	ast	All Ot .) Diagn <u>(G4)</u>		Analy	sis of Va	ariance	(ANC	VA)
VARIABLES	Mean <i>(SD)</i>	N	Mean <i>(SD)</i>	N	Mean <i>(SD)</i>	N	Mean <i>(SD)</i>	N	Mean <i>(SD)</i>	N	F	(df)	p	R²	N-K Differences ^a
Age (in years) (at 1st commitment) (07/01/99 to 06/31/00	16.83 2 [.] (1.13)))		16.39 (1.18)	12	17.52 (0.67)	24	16.81 (1.13)		16.46 (1.24)	25	4.71	(3, 211)	.0033 .	063	G2 > G1, G3, G4
Number of Admissions (07/01/99 to 06/31/00	1.18 2 [.]))(0.45)		1.08 (0.29)	12	1.25 (0.53)	24	1.18 (0.45)	154	1.16 (0.47)	25	0.39	(3, 211)	.7631 .	005	ns

Note:

^a Newman-Keuls subsequent tests; ns = not significant.

Table 26
Frequencies and Percents of Demographic Variables By Mental Health Diagnoses (N = 215)

					MENT	AL HE	ALTH C	IAGNO	SIS					
	<u> </u>	otal	Cono Diso Only	rder	Subs Abus <u>Only</u>	tance e	Com (at le <u>CD c</u>		All O Diagi	ther noses	<u>Chi S</u>	Square ^a		
VARIABLES	N (215)	C%	N (12)	C%	N (24)	C%	N (154)	C%	N (25)	C%	χ^2	(df)	p	
Gender														
Male	183	85.1	12	100.0	23	95.8	127	82.5	21	84.0	5.15	(3)		.1610
Female	32	14.9	0	0.0	1	4.2	27	17.5	4	16.0				
Birth Place														
Hawai'i	149	69.3	9	75.0	19	79.2	103	66.9	18	72.0	5.88	(9)		.7522
Mainland/U.S. territory	42	19.5	2	16.7	3	12.5	33	21.4	4	16.0				
International	17	7.9	0	0.0	2	8.3	12	7.8	3	12.0				
No indication	7	3.3	1	8.3	0	0.0	6	3.9	0	0.0				
Ethnicity														
Caucasian	16	7.4	0	0.0	3	12.5	10	6.5	3	12.0	9.90	(12)		.6251
Filipino	12	5.6	0	0.0	2	8.3	10	6.5	0	0.0				
Hawaiian/part-Hawaiia	n 124	57.7	8	66.7	15	62.5	87	56.5	14	56.0				
Mixed non-Hawaiian	50	23.3	4	33.3	4	16.7	35	22.7	7	28.0				
Other non-mixed	13	6.0	0	0.0	0	0.0	12	7.8	1	4.0				

 Table 27

 Means, Standard Deviations, and N Sizes of Family Variables By Mental Health Diagnoses (N = 215)

					MENTA	IL HI	EALTH	DIAG	SNOSIS						
	Tc	otal	Condu Disorc <u>Only (</u>	der	Abuse	Э	Comc e (at lea CD or <u>(G3)</u>	ast	All Ot .) Diagr <u>(G4)</u>		Analy	sis of Va	ariance	e (ANC	DVA)
VARIABLES	Mean <i>(SD)</i>	N	Mean <i>(SD)</i>	N	Mean <i>(SD)</i>	N	Mean <i>(SD)</i>	N	Mean <i>(SD)</i>	N	F	(df)	p	R²	N-K Differences ^a
Number of Siblings Biological siblings	1.91 (1.47)	137	2.50 (1.87)	6	1.85 (1.63)	13	1.88 (1.48)	107	2.00 (1.10)	11	0.35	(3, 133)	.7864	.008	ns
Half brothers	1.73 (1.48)	52	1.00 (0.00)	1	1.50 (0.58)	4	1.65 (1.53)	40	2.43 (1.62)	7	0.66	(3, 48)	.5835	.039	ns
Half sisters	1.50 (0.89)	38	2.00 (0.00)	1	1.33 (0.58)	3	1.52 (1.01)	27	1.43 (0.53)	7	0.15	(3, 34)	.9308	.013	ns
Step brothers	1.83 (0.98)	6	na na	0	3.00 (0.00)	1	1.25 (0.50)	4	3.00 (0.00)	1	8.17	(2, 3)	.0611	.844	ns
Step sisters	2.00 (0.89	6	na na	0	1.00 (0.00)	1	2.20 (0.84)	5	na na	0	1.71	(1, 4)	.2606	.300	ns

^a Newman-Keuls subsequent tests; ns = not significant.

Table 28 Frequencies and Percents of Family Variables By Mental Health Diagnoses (N = 215)

					MENTA	AL HE	ALTH C	IAGNC	SIS					
	<u> </u>	otal	Conc Disor Only		Subs Abus <u>Only</u>	tance e	Com (at le <u>CD c</u>		All O Diagi	ther noses	<u>Chi S</u>	Square ^a		
	N		N		N		Ν		Ν					
VARIABLES	(215)	C%	(12)	C%	(24)	C%	(154)	C%	(25)	C%	χ^2	(df)	p	
O'ahu Island of Hawai'i Kaua'i Maui Moloka'i Other/undetermined (none from Lana'i or I	114 23 32 23 1 9 Ni'ihau)	56.4 11.4 15.8 11.4 0.5 4.5	7 1 0 1 0 0		11 5 3 0 2	45.8 20.8 12.5 12.5 0.0 8.3	15 24 16 1	57.1 10.2 16.3 10.9 0.7 4.8	12 2 5 3 0 0	54.5 9.1 22.7 13.6 0.0 0.0	8.42	2 (15)		.9057
Birth Order (N = 129) First born Middle Last Only child	29 37 44 19	22.5 28.7 34.1 14.7	3 2 0 1	50.0 33.3 0.0 16.7	2 3 5 2	16.7 25.0 41.7 16.7	22 27 36 15	22.0 27.0 36.0 15.0	2 5 3 1	18.2 45.5 27.3 9.1	6.37	7 (9)		.7021

Table 29
Frequencies and Percents of Family Variables By Mental Health Diagnoses (N = 215)

					MENT	AL HE	ALTH C	IAGNC	SIS					
	<u> </u>	<u>otal</u>	Cono Diso Only	rder	Subs Abus Only	tance e	Com (at le CD o		All O Diagi		<u>Chi S</u>	quare ^a		
/ARIABLES	N (215)	C%	N (12)	C%	N (24)	C%	N (154)	C%	N (25)	C%	χ^2	(df)	p	
Raised Mostly By														
Biological father Yes	87	40.5	3	25.0	13	54.2	66	42.9	5	20.0	7.77	(2)		.050
No/no indication	128	40.5 59.5	9	25.0 75.0	13	45.8	88	42.9 57.1	20	20.0 80.0	1.11	(3)		.050
Biological mother														
Yes	170	79.1	9	75.0	19	79.2	125	81.2	17	68.0	2.38	(3)		.497
No/no indication	45	20.9	3	25.0	5	20.8	29	18.8	8	32.0				
Maternal grandparent	. ,													
Yes	25	11.6	2	16.7	1	4.2	18	11.7	4	16.0	2.06	(3)		.559
No/no indication	190	88.4	10	83.3	23	95.8	136	88.3	21	84.0				
Paternal grandparent														
Yes	8	3.7	0	0.0	1	4.2	6	3.9	1	4.0	0.50	(3)		.919
No/no indication Relative(s)	207	96.3	12	100.0	23	95.8	148	96.1	24	96.0				
Yes	34	15.8	1	8.3	1	4.2	25	16.2	7	28.0	5.76	(3)		.123
No/no indication Older sibling(s)	181	84.2	11	91.7	23	95.8	129	83.8	18	72.0				
Yes	5	2.3	0	0.0	0	0.0	3	2.0	2	8.0	4.50	(3)		.212
No/no indication	210	97.7		100.0		100.0	151	98.1	23	92.0				
Adoptive parent(s)														
Yes	9	4.2	1	8.3	1	4.2	5	3.3	2	8.0	1.76	(3)		.623
No/no indication	206	95.8	11	91.7	23	95.8	149	96.8	23	92.0		. /		
Foster parent(s)														
Yes	14	6.5	1	8.3	1	4.2	12	7.8	0	0.0	2.44	(3)		.486
No/no indication	201	93.5	11	91.7	23	95.8	142	92.2	25	100.0				
Other														
Yes	46	21.4	1	8.3	6	25.0	33	21.4	6	24.0	1.50	(3)		.681
No/no indication	169	78.6	11	91.7	18	75.0	121	78.6	19	76.0				

Table 30

Frequencies and Percents of Family Variables By Mental Health Diagnoses (N = 215)

					MENT	AL HE	ALTH C	IAGNC	SIS					
	<u> </u>	otal	Conc Disor Only		Subs Abus Only		Com (at le CD c		All O Diag	ther noses	<u>Chi S</u>	quare ^a		
VARIABLES	N (215)	C%	N (12)	C%	N (24)	C%	N (154)	C%	N (25)	C%	χ^2	(df)	p	
Family Status														
Intact biological paren	ts													
Yes	23	10.7	1	8.3	4	16.7	18	11.7	0	0.0	4.12	(3)		.249
No/no indication	192	89.3	11	91.7	20	83.3	136	88.3		100.0		(-)		
Single parent														
Yes	98	45.6	5	41.7	9	37.5	73	47.4	11	44.0	0.94	(3)		.816
No/no indication	117	54.4	7	58.3	15	62.5	81	52.6	14	56.0		()		
Blended family														
Yes	45	20.9	3	25.0	9	37.5	29	18.8	4	16.0	4.88	(3)		.180
No/no indication	170	79.1	9	75.0	12	62.5	125	81.2	21	84.0		()		
Lives with relatives														
Yes	35	16.3	1	8.3	3	12.5	25	16.2	6	24.0	1.90	(3)		.593
No/no indication	180	83.7	11	91.7	21	87.5	129	83.8	19	76.0		(-)		
Adoptive home														
Yes	4	1.9	1	8.3	0	0.0	2	1.3	1	4.0	4.10	(3)		.250
No/no indication	211	98.1	11	91.7	24	100.0	152	98.7	24	96.0		()		
Foster home														
Yes	6	2.8	0	0.0	0	0.0	6	3.9	0	0.0	2.44	(3)		.485
No/no indication	209	97.2	12	100.0	24	100.0	148	96.1	25	100.0				
Temporary placement														
Yes	3	1.4	0	0.0	0	0.0	1	0.7	2	8.0	9.06	(3)		.028
No/no indication	212	98.6	12	100.0	24	100.0	153	99.4	23	92.0				
Homeless														
Yes	2	0.9	0	0.0	0	0.0	1	0.7	1	4.0	3.03	(3)		.387
No/no indication	213	99.1	12	100.0	24	100.0	153	99.4	24	96.0				
Other														
Yes	36	16.7	0	0.0	4	16.7	28	18.2	4	16.0	2.65	(3)		.448
No/no indication	179	83.3	12	100.0	20	83.3	126	81.8	21	84.0				

Note:

Table 31 Frequencies and Percents of Family Variables By Mental Health Diagnoses (N = 215)

					MENT	AL HE	ALTH [DIAGNC	SIS					
	1	<u>Fotal</u>	Cono Diso Only		Subs Abus Only		(at le	orbid east or Sub.)	All C Diag	other	<u>Chi S</u>	quare ^a		
	Ν		Ν		Ν		Ν		Ν					
VARIABLES	(215)	C%	(12)	C%	(24)	C%	(154)	C%	(25)	C%	χ^2	(df)	p	
Employment Status of Prir Family Supporter Unemployed	mary													
Yes	13	6.1	3	25.0	1	4.2	9	5.8	0	0.0	9.36	(3)		.0249
No/no indication Military, active duty	202	94.0	9	75.0	23	95.8	145	94.2	25	100.0				
Yes	4	1.9	0	0.0	2	8.3	2	1.3	0	0.0	6.47	(3)		.0907
No/no indication Physical labor	211	98.1	12	100.0	22	91.7	152	98.7	25	100.0				
Yes	5	2.3	1	8.3	0	0.0	4	2.6	0	0.0	3.12	(3)		.3730
No/no indication Clerical	210	97.7	11	91.7	24	100.0	150	97.4	25	100.0				
Yes	1	0.5	0	0.0	1	4.2	0	0.0	0	0.0	8.00	(3)		.0461
No/no indication Custodial/housekeepir	214 ng	99.5	12	100.0	23	95.8	154	100.0	25	100.0				
Yes	3	1.4	0	0.0	0	0.0	3	2.0	0	0.0	1.21	(3)		.7518
No/no indication Supervisory/manageri		98.6		100.0		100.0	151	98.1		100.0				
Yes No/no indication	2 213	0.9 99.1	0 12	0.0 100.0	1 23	4.2 95.8	0 154	0.0 100.0	1 24	4.0 96.0	6.84	(3)		.0771
Proprietor														
Yes	5	2.3	0	0.0	0	0.0	5	3.3	0	0.0	2.03	(3)		.5667
No/no indication Educator (college, univ		97.7		100.0		100.0	149	96.8	25	100.0				
Yes	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	na	na		na
No/no indication Executive Yes	215	100.0		100.0 4.0		100.0		100.0		100.0	0.40	(2)		0407
No/no indication Other	214	0.5 99.5	0 12	4.0 96.0	0 24	0.0 100.0	1 153	0.7 99.4	0 25	0.0 100.0	0.40	(3)		.9407
Yes	76	35.4	3	25.0	11	45.8	58	37.7	4	16.0	6.17	(3)		.1035
No/no indication	139	64.7	9	75.0	13		96	62.3	21	84.0		(-)		
Teenage Parent														
Yes	21	9.8	1	8.3	1	4.2	17	11.0	2	8.0	1.25	(3)		.7402
No/no indication	194	90.2	11	91.7	23	95.8	137	89.0	23	92.0				
Family Psychiatric History														
Yes No/no indication	97 118	45.1 54.9	7 5	58.3 41.7	12 12		67 87	43.5 56.5	11 14	44.0 56.0	1.25	(3)		.7407
Family History of Incarcera	ation													
Yes	48	22.3	2	16.7	5	20.8	30	19.5	11	44.0	7.74	(3)		.0516
No/no indication	167	77.7	10	83.3	19	79.2	124	80.5	14	56.0				

Note:

 $^{\rm a}$ Chi square refers to the interaction between the variable and mental health diagnosis.

Table 32 Means, Standard Deviations, and N Sizes of Child Development/Health Variables By Mental Health Diagnoses

					MENTA	AL H	IEALTH	DIA	GNOSIS						
	T	otal	Cond Disor Only	der	Abus	е		ast	All Ot b.) Diagn (G4)		Analysis	s of Va	ariance	e (AN)	OVA)
VARIABLES	Mean <i>(SD)</i>	N	Mean <i>(SD)</i>	N	Mean <i>(SD)</i>		Mean <i>(SD)</i>	N	Mean <i>(SD)</i>	N	F	(df)	p	R²	N-K Differences ^a
Birth Weight (in ounces)	87.69 (30.73)		92.00 (40.78)		83.35 (21.12)		89.81 (30.12)	117	76.86 (37.98)	18	1.12 [3,	159)	.3436	.021	ns

Note:

^a Newman-Keuls subsequent tests; ns = not significant.

Table 33 Frequencies and Percents of Child Development/Health Variables By Mental Health Diagnoses (N = 215)

					MENT	AL HE	ALTH D	DIAGNC	SIS					
	<u> </u>	otal	Cono Diso Only	rder	Subs Abus Only		Com (at le CD o		All O Diagi	ther	<u>Chi S</u>	quare ^a		
VARIABLES	N (215)	C%	N (12)	C%	N (24)	C%	N (154)	C%	N (25)	C%	χ^2	(df)	p	
Prenatal Complications Yes	24	11.2	1	8.3	0			13.0	3	12.0	3.65	(3)		.3022
No/no indication Perinatal/Delivery Compli	191	88.8	11	91.7	24	100.0	134	87.0	22	88.0				
Yes No/no indication	15 200	7.0 93.0	1 11	8.3 91.7	1 23	4.2 95.8	12 142	7.8 92.2	1 24	4.0 96.0	0.83	(3)		.8434

Table 34

Frequencies and Percents of Child Development/Health Variables By Mental Health Diagnoses (N = 215) MENTAL HEALTH DIAGNOSIS

	1	Total		Conduct Disorder Only		Substance Abuse Only		Comorbid (at least CD or Sub.)		All Other Diagnoses		Chi Square ^a			
VARIABLES	N (215)	C%	N (12)	C%	N (24)	C%	N (154)	C%	N (25)	C%	χ^2	(df)		p	
Perinatal Status															
Born out of wedlock															
Yes	37	17.2	4	33.3	4	16.7	27	17.5	2	8.0	3.69	(3)			.2964
No/no indication	178	82.8	8	66.7	20	83.3	127	82.5	23	92.0		. ,			
Never seen father															
Yes	12	5.6	0	0.0	0	0.0	12	7.8	0	0.0	5.03	(3)			.1693
No/no indication	203	94.4	12	100.0	24	100.0	142	92.2	25	100.0		. ,			
Never seen mother															
Yes	2	0.9	0	0.0	0	0.0	2	1.3	0	0.0	0.80	(3)			.8496
No/no indication	213	99.1	12	100.0	24	100.0	152	98.7	25	100.0					
Carries father's name															
Yes	93	43.3	5	41.7	9	37.5	69	44.8	10	40.0	0.59	(3)			.8976
No/no indication	122	56.7	7	58.3	15	62.5	85	55.2	15	60.0		. ,			
Carries mother's name															
Yes	28	13.0	4	33.3	0	0.0	19	12.3	5	20.0	9.10	(3)			.0280
No/no indication	187	87.0	8	66.7	24	100.0	135	87.7	20	80.0		. ,			
Other															
Yes	9	4.2	0	0.0	2	8.3	6	3.9	1	4.0	1.59	(3)			.6621
No/no indication	206	95.8	12	100.0	22	91.7	148	96.1	24	96.0					
Premature Delivery															
Yes	7	3.3	1	8.3	0	0.0	3	2.0	3	12.0	8.69	(3)			.0336
No/no indication	208	96.7	11	91.7	24	100.0	151	98.1	22	88.0					
Accidental Injuries															
Yes	107	49.8	5	41.7	11	45.8	82	53.3	9	36.0	3.10	(3)			.3758
No/no indication	108	50.2	7	58.3	13	54.2	72	46.8	16	64.0					
Loss of Consciousness												(*)			
Yes	29	13.5	0	12.0	4	16.7	24	15.6	1	4.0	4.59	(3)			.2046
No/no indication	186	86.5	12	88.0	20	83.3	130	84.4	24	96.0					
Dhuming I Dafa maite															
Physical Deformity	4	10	0	0.0	0	0.0	2	10	2		C 11	(2)			1001
Yes	4 211	1.9	0	0.0	0	0.0	2	1.3	2 23	8.0	6.11	(3)			.1064
No/no indication	211	98.1	12	100.0	24	100.0	152	98.7	23	92.0					
Deformity															
Yes	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	na	na			na
No/no indication		100.0		100.0		100.0		100.0		100.0	na	па			na
	210	100.0	12	100.0	27	100.0	104	100.0	20	100.0					
Physical Handicap(s)															
Yes	5	2.3	0	0.0	1	4.2	4	2.6	0	0.0	1.29	(3)			.7317
No/no indication	210	97.7		100.0	23	95.8	150	97.4		100.0	0	(0)			
	2.0	0			20	00.0		0							
Past Significant Illness															
Yes	45	20.9	1	8.3	6	25.0	32	20.8	6	24.0	1.54	(3)			.6742
No/no indication	170	79.1	11	91.7	18	75.0	122	79.2	19	76.0		()			
Surgical Cond. & Operation	۱														
Yes	32	14.9	1	8.3	5	20.8	24	15.6	2	8.0	2.07	(3)			.5576
No/no indication	183	85.1	11	91.7	19	79.2	130	84.4	23	92.0					
Note:															

Note:

Table 35 Frequencies and Percents of Special Education By Mental Health Diagnoses (N = 215)

					MENT	AL HE	ALTH C	IAGNC	SIS					
	<u> </u>	Total		Conduct Disorder Only		Substance Abuse Only		Comorbid (at least <u>CD or Sub.</u>)		ther noses	<u>Chi Square^a</u>			
VARIABLES	N (215)	C%	N (12)	C%	N (24)	C%	N (154)	C%	N (25)	C%	χ^2	(df)	p	
Special Education Yes No/no indication	51 164	23.7 76.3	2 10	16.7 83.3	4 20	16.7 83.3	39 115	25.3 74.7	6 19	24.0 76.0	1.21	(3)		.7506

Note:

Table 36 Frequencies and Percents of Violence Variables By Mental Health Diagnoses (N = 215)

					MENTA	AL HE	ALTH C	IAGNC	SIS					
	<u> </u>	otal	Cond Disor Only		Substance Abuse Only		Comorbid (at least <u>CD or Sub.</u>)		All Other Diagnoses		<u>Chi Square^a</u>			
/ARIABLES	N (215)	C%	N (12)	C%	N (24)	C 9/	N (154)	C%	N (25)	C%	χ^2	(df)	p	
	. /		. ,		. ,				. ,					
Violence to Self & Others Self-victim	i													
Self-Victim Yes	123	57.2	9	75.0	8	33.3	95	61.7	11	44.0	10.18	(2)		.01
No/no indication	92	57.2 42.8	9	75.0 25.0	8 16	33.3 66.7	95 59	38.3	14	44.0 56.0	10.18	(3)		.01
	92	42.0	3	25.0	10	00.7	59	30.3	14	56.0				
Self-perpetrator Yes	106	49.3	5	41.7	5	20.8	86	55.8	10	40.0	11.56	(3)		.00
No/no indication	100	49.3 50.7	7		19	79.2	68	44.2	15	40.0 60.0	11.50	(3)		.00
Other (non-self)	103	50.7	'	50.5	15	13.2	00	44.2	15	00.0				
Yes	50	23.3	3	25.0	7	29.2	35	22.7	5	20.0	0.66	(3)		.88
No/no indication	165	76.7	9	75.0	17	70.8	119	77.3	20	80.0	0.00	(0)		.00
Unspecified violence			U	. 510		. 510				2010				
Yes	90	41.9	5	41.7	8	33.3	65	42.2	12	48.0	1.11	(3)		.77
No/no indication	125	58.1	7	58.3	16	66.7	89	57.8	13	52.0		. /		
Any violence														
Yes	179	83.3	9	75.0	17	70.8	134	87.0	19	76.0	5.75	(3)		.12
No/no indication	36	16.7	3	25.0	7	29.2	20	13.0	6	24.0				

Note:

Table 37 Frequencies and Percents of Violence Variables By Mental Health Diagnoses (N = 215)

			MENTAL HEALTH DIAGNOSIS												
	Total			Disorder Abus			(at le	Comorbid (at least <u>CD or Sub.</u>)		All Other Diagnoses		<u>Chi Square^a</u>			
VARIABLES	N (215)	C%	N (12)	C%	N (24)	C%	N (154)	C%	N (25)	C%	χ^2	(df)		p	
Gang Involvement Yes No/no indication	43 172	20.0 80.0	2 10	16.7 83.3	1 23	4.2 95.8		24.0 76.0	3 22	12.0 88.0	6.40	(3)			.0935

 Table 38

 Means, Standard Deviations, and N Sizes of Substance Use Variables By Mental Health Diagnoses (N = 215)

					MENTA	AL HI	EALTH	DIAG	SNOSIS						
	Total		Comorbid Conduct Substance (at least All Other Disorder Abuse CD or Sub.) Diagnoses Only (G1) Only (G2) (G3) (G4)						Analy	rsis of Va	ariance	(ANC)VA)		
VARIABLES	Mean <i>(SD)</i>	N	Mean <i>(SD)</i>	N	Mean <i>(SD)</i>	N	Mean <i>(SD)</i>	N	Mean <i>(SD)</i>	N	F	(<i>df</i>)	p	R²	N-K Differences ^a
Age of Substance Use Cigarettes	11.81 (2.10)	75	13.50 (0.71)	2	13.00 (3.16)	5	11.67 (2.04)	66	11.75 (1.77)	2	1.06	(3, 71)	.3723 .	043	ns
Alcohol	12.39 (2.42)	140	12.67 (2.08)	3	12.68 (1.69)	17	12.18 (2.56)	110	14.10 (1.17)	10	2.07	(3, 136)	.1073 .	044	ns
Marijuana	12.16 (2.06)	166	12.44 (1.68)	8	12.58 (2.09)	18	12.05 (2.10)	129	12.55 (1.81)	11	0.55	(3, 162)	.6508 .	010	ns
Cocaine	14.00 (1.85)	25	na na	0	16.00 (0.00)	1	13.91 (1.93)	22	14.00 (0.00)	2	0.59	(2, 22)	.5623 .	051	ns
Methamphetamine	14.10 (1.97)	88	15.50 (2.12)	2	15.40 (1.07)	10	14.03 (1.69)	73	10.33 (5.03)	3	6.55	(3, 84)	.0005 .	190	G1, G2, G3 > G4
Paints/glue	13.13 (0.95)	8	na na	0	na na	0	13.13 (0.95)	8	na na	0	na	na	na	na	na
Mushroom	13.60 (2.41)	15	na na	0	13.50 (3.54)	2	13.62 (2.40)	13	na na	0	0.00	(1, 13)	.9526 .	000	ns
LSD	12.67 (2.13)	15	na na	0	11.00 (0.00)	1	12.79 (2.15)	14	na na	0	0.64	(1, 13)	.4377 .	047	ns

Note:

^a Newman-Keuls subsequent tests; ns = not significant.

Table 39

Frequencies and Percents of Substance Use Variables By Mental Health Diagnoses (N = 215)

				I	MENT	AL HE	ALTH C	IAGNO	SIS					
	Total		Conduct Disorder Only		Substance Abuse Only		Comorbid (at least CD or Sub.)		All Other Diagnoses		<u>Chi Square^a</u>			
VARIABLES	N (215)	C%	N (12)	C%	N (24)	C%	N (154)	C%	N (25)	C%	χ^2	(df)	p	
Substance Use History														
Yes	212	98.6	11	91.7		100.0	152	98.7		100.0	4.90	(3)		.1791
No/no indication	3	1.4	1	8.3	0	0.0	2	1.3	0	0.0				
Specific Substance Use Cigarette use														
Yes	157	73.0	8	66.7	18	75.0	116	75.3	15	60.0	2.86	(3)		.4137
No/no indication	58	27.0	4	33.3	6	25.0	38	24.7	10	40.0				
Alcohol use														
Yes	192	89.3	7	58.3	21	87.5	146	94.8	18	72.0	24.84	(3)		<.0001
No/no indication	23	10.7	5	41.7	3	12.5	8	5.2	7	28.0				
Marijuana use	000	04.0		04 7	0.4	400.0	4 4 7	05.5	00	00.0	40.00	(0)		0407
Yes	202	94.0	11 1	91.7	24	100.0	147	95.5	20 5	80.0	10.83	(3)		.0127
No/no indication Cocaine use	13	6.1	1	8.3	0	0.0	7	4.6	5	20.0				
Yes	58	27.0	0	0.0	10	41.7	44	28.6	4	16.0	8.79	(3)		.0322
No/no indication	157	73.0	-	100.0	14	58.3	110	20.0 71.4	21	84.0	0.19	(3)		.0322
Methamphetamine use		10.0	12	100.0		00.0		,	21	01.0				
Yes	128	59.5	2	16.7	17	70.8	99	64.3	10	40.0	15.83	(3)		.0012
No/no indication	87	40.5	10	83.3	7	29.2	55	35.7	15	60.0				
Paints/glue use														
Yes	24	11.2	0	0.0	2	8.3	19	12.3	3	12.0	1.93	(3)		.5863
No/no indication	191	88.8	12	100.0	22	91.7	135	87.7	22	88.0				
Mushroom use														
Yes	48	22.3	1	8.3	10	41.7	35	22.7	2	8.0	9.50	(3)		.0233
No/no indication LSD use	167	77.7	11	91.7	14	58.3	119	77.3	23	92.0				
Yes	41	19.1	0	0.0	5	20.8	31	20.1	5	20.0	3.00	(3)		.3913
No/no indication	174	80.9	12	100.0	19	79.2	123	79.9	20	80.0				

Note:

Table 40 Frequencies and Percents of Mental Health Variables By Mental Health Diagnoses (N = 215)

			MENTAL HEALTH DIAGNOSIS											
	T	Total	Conduct Disorder Only		Substance Abuse Only		Comorbid (at least <u>CD or Sub.</u>)		All Other Diagnoses		<u>Chi Square^a</u>			
VARIABLES	N (215)	C%	N (12)	C%	N (24)	C%	N (154)	C%	N (25)	C%	χ^2	(df)	p	
Past Psych. Hospitalizatio	n													
Yes	65	30.2	4	33.3	4	16.7	51	33.1	6	24.0	3.22	(3)		.3594
No/no indication	150	69.8	8	66.7	20	83.3	103	66.9	19	76.0				
School/Clinic History														
Yes	168	78.1	9	75.0	18	75.0	122	79.2	19	76.0	0.38	(3)		.9443
No/no indication	47	21.9	3	25.0	6	25.0	32	20.8	6	24.0	0.00	(0)		
Psychotropic Medications		50.0	-	44 7	-	00.0	00	50.4	•	00.0	40.40	(0)		0044
Yes No/no indication	108 107	50.2 49.8	5 7	41.7 58.3	5 19	20.8 79.2	90 64	58.4 41.6	8 17	32.0 68.0	16.13	(3)		.0011
No/no indication	107	45.0	'	50.5	13	15.2	04	41.0	17	00.0				
Suicidal Information Suicidal														
Yes	13	6.1	2	16.7	0	0.0	10	6.5	1	4.0	4.17	(3)		.2441
No/no indication	202	94.0	10	83.3	24	100.0	144	93.5	24	96.0				
Suicidal Ideation												(-)		
Yes	43	20.0	1	8.3	3	12.5	31	20.1	8	32.0	4.12	(3)		.2492
No/no indication Suicide Attempt	172	80.0	11	91.7	21	87.5	123	79.9	17	68.0				
Yes	48	22.3	2	16.7	3	12.5	36	23.4	7	28.0	2.12	(3)		.5479
No/no indication	167	77.7	10	83.3	21	87.5	118	76.6	18	72.0		(0)		
Llamiaidal														
Homicidal Yes	20	9.3	3	25.0	0	0.0	16	10.4	1	4.0	7.02	(2)		.0714
No/no indication	195	9.3 90.7	3 9	25.0 75.0		100.0	138	89.6	24	96.0	1.02	(3)		.0714
Psychotic	-		-		-		~					(0)		0.405
Yes	2	0.9	0	0.0	0	0.0	152	1.3	0	0.0	0.80	(3)		.8496
No/no indication	213	99.1	12	100.0	24	100.0	152	98.7	25	100.0				

Note:

Table 41 Frequencies and Percents of Treatment Variables By Mental Health Diagnoses (N = 215)

			MENTAL HEALTH DIAGNOSIS										
	<u> </u>	otal	Conc Diso Only		Substance Abuse Only		Comorbid (at least CD or Sub.)		All Other Diagnoses		Chi Square ^a		
VARIABLES	N (215)	C%	N (12)	C%	N (24)	C%	N (154)	C%	N (25)	C%	χ^2	(df)	p
Treatment Recommended													
Yes No/no indication	209 6	97.2 2.8	12 0	100.0 0.0	23 1	95.8 4.2	150 4	97.4 2.6	24 1	96.0 4.0	0.67	(3)	.8807
NO/HO INDICATION	0	2.0	0	0.0	I	4.2	4	2.0		4.0			
Type of Treatment Recom Individual psychothera													
Yes	132	61.4	7	58.3	9	37.5	98	63.6	18	72.0	7.34	(3)	.0618
No/no indication Group psychotherapy	83	38.6	5	41.7	15		56	36.4	7	28.0			
Yes	25	11.6	1	8.3	0	0.0	18	11.7	6	24.0	7.01	(3)	.0716
No/no indication Family Psychotherapy	190	88.4	11	91.7	24	100.0	136	88.3	19	76.0			
Yes	77	35.8	7	58.3	1	4.2	61	39.6	8	32.0	14.23	(3)	.0026
No/no indication	138	64.2	5	41.7	23	95.8	93	60.4	17	68.0			
Sub. abuse Tx Progra Yes	m 161	74.9	6	50.0	23	95.8	123	79.9	9	36.0	31.68	(3)	<.0001
No/no indication	54	25.1	6	50.0	23	4.2	31	20.1	16	64.0	51.00	(3)	<.0001
Anger management	04	20.1	0	00.0				20.1	.0	51.5			
Yes	62	28.8	4	33.3	4	16.7	50	32.5	4	16.0	4.85	(3)	.1833
No/no indication	153	71.2	8	66.7	20	83.3	104	67.5	21	84.0		(-)	
Psychopharmacothera	apy												
Yes	76	35.4	2	16.7	3	12.5	68	44.2	3	12.0	18.51	(3)	.0003
No/no indication Occup./rehab. Tx	139	64.7	10	83.3	21	87.5	86	55.8	22	88.0			
Yes	5	2.3	0	0.0	0	0.0	4	2.6	1	4.0	1.22	(3)	.7492
No/no indication	210	97.7	12	100.0	24	100.0	150	97.4	24	96.0			

Note: