

An Evaluation of the Behavioral Health/Juvenile Justice (BHJJ) Initiative: 2006-2015 Franklin County Results

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EXECUTIVE SUMMARY: AN EVALUATION OF THE BEHAVIORAL HEALTH/JUVENILE JUSTICE (BHJJ) INITIATIVE: 2006 – 2015 FRANKLIN COUNTY RESULTS

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Juvenile justice-involved youth with serious behavioral health issues often have inadequate and limited access to care to address their complex and multiple needs. Ohio's Behavioral Health/Juvenile Justice (BHJJ) initiative was intended to transform and expand the local systems' options to better serve these youth. Recent emphasis was placed on decreasing the population of ODYS facilities while providing alternatives to incarceration. Twelve counties participated in BHJJ in the newest biennium: Cuyahoga, Franklin, Cuyahoga, Hamilton, Lucas, Summit, Wayne, Holmes, Trumbull, Mahoning, Lorain, and Wood. BHJJ was funded by a partnership between the Ohio Departments of Youth Services (ODYS) and Mental Health and Addiction Services (OhioMHAS). The Begun Center for Violence Prevention Research and Education at Case Western Reserve University provided research and evaluation services for the program.

The BHJJ program diverts youth from local and state detention centers into more comprehensive, community-based mental and behavioral health treatment. The BHJJ program enrolled juvenile justice-involved youth between 10-18 years of age who met several of the following criteria: a DSM IV Axis I diagnosis, substantial mental status impairment, a co-occurring substance use/abuse problem, a pattern of violent or criminal behavior, and a history of multi-system involvement.

Demographics and Youth Characteristics

- ❖ In Franklin County, 470 youth have been enrolled in BHJJ Services (80.7% males, 54% African American). In the past two years, more Non-White youth (67.0%) than White youth (33.0%) and males (72.7%) than females (27.3%) have been enrolled.
- ❖ Youth averaged 2.2 Axis I diagnoses. Females were significantly more likely to be diagnosed with Posttraumatic Stress Disorder. Males were significantly more likely to be diagnosed with Cannabis-related Disorders, Attention Deficit Hyperactivity Disorder (ADHD), and Conduct Disorder.
- ❖ Over 50% of males and 19% of females were diagnosed with both a mental health and substance use diagnosis.
- ❖ Caregivers reported that 16.7% of the females had a history of sexual abuse, nearly 41% talked about suicide, and nearly 19% had attempted suicide. Over 47% of males and 51% of females had family members who were diagnosed with or showed signs of depression.
- ❖ According to the OYAS, 85.0% of the youth served in BHJJ were moderate or high risk.
- ❖ In the Franklin County, 70.8% of youth had felony charges in the 12 months prior to enrollment.

Educational Information

- ❖ A little over 77% of the youth were suspended or expelled from school in the year prior to their enrollment. At termination, 82% of youth were attending school. At intake, 7.2% of youth received mostly A's and B's, while at termination 16.8% were receiving mostly A's and B's.
- ❖ At termination, workers reported that 85% of youth were attending school more or about the same amount as they were before starting treatment.

Mental/Behavioral Health Outcomes

- ❖ BHJJ youth reported a significant decrease in trauma symptoms from intake to termination.
- ❖ Results from the Ohio Scales indicated the caregiver, worker, and youth all reported increased youth functioning and decreased problem severity while in BHJJ treatment.
- ❖ Both males and females reported a decrease in past six month alcohol and marijuana use.
- ❖ Youth demonstrated a 75.8% reduction in the risk for out of home placement at the time of termination. About 2% of successful completers and 60% of unsuccessful completers were at risk for out of home placement at termination.
- ❖ Over 88% of caregivers agreed that they were satisfied with the services their child received through BHJJ and 91.6% agreed that the services received were culturally and ethnically sensitive.

Termination and Recidivism Information

- ❖ Over 68% of the youth terminated from the BHJJ program were identified locally as successful treatment completers. Sixty-three percent of youth enrolled in the past biennium were identified as successful treatment completers. The average length of stay in the program was approximately 8 months (8 months for youth enrolled during previous biennium).
- ❖ Successful treatment completion in BHJJ produced lower percentages of subsequent juvenile court charges, felonies, and delinquent adjudications than unsuccessful completion, although both groups demonstrated decreased juvenile court involvement after termination from BHJJ compared to before enrollment.
- ❖ One year after termination, 13.8% of successful treatment completers and 23.1% of unsuccessful treatment completers had a new felony charge. Of the youth entering BHJJ with at least one felony charge, 14.5% were charged with a new felony in the 12 months after their termination from BHJJ.
- ❖ Twenty-nine of the 445 youth (6.5%) enrolled in BHJJ for whom we had recidivism data were sent to an ODYS facility at any time following their enrollment in BHJJ.

AN EVALUATION OF THE BEHAVIORAL HEALTH/JUVENILE JUSTICE (BHJJ) INITIATIVE 2006-2015: FRANKLIN COUNTY RESULTS

JUVENILE JUSTICE AND MENTAL HEALTH

Youth involved in the juvenile justice system report significant behavioral health impairment. While estimates vary, most studies report that between 65-75% of juvenile justice-involved (JJI) youth have at least one mental health or substance abuse disorder and 20% to 30% report suffering from a serious mental disorder (Cocozza & Skowyra, 2000; Shufelt & Cocozza, 2006; Teplin, Abram, McClelland, Dulcan, & Mericle, 2002; Wasserman, McReynolds, Lucas, Fisher, & Santos, 2002). Rates of similar mental health/substance use disorders among the general adolescent population are far lower (Cuellar, McReynolds, & Wasserman, 2006; Friedman, Katz-Levy, Manderscheid, & Sondheimer, 1996; Merikangas, et al., 2010; Otto, Greenstein, Johnson, & Friedman, 1992; U.S. Department of Health and Human Services, 1999).

Studies have found that JJI females are often more likely to suffer from mental health disorders than JJI males (Teplin et al., 2002; Nordess et al., 2002; Shufelt & Cocozza, 2006; Wasserman, McReynolds, Ko, Katz, & Carpenter, 2005). Driving this difference is the fact that Anxiety and Mood Disorders are far more common in JJI girls than JJI boys (Shufelt & Cocozza, 2006; Teplin et al., 2002; Wasserman et al., 2005). Not only are JJI girls more likely to report mental health disorders, they are also more likely to report co-occurring mental health and substance use disorders than JJI males (Abram, Teplin, McClelland, & Dulcan, 2003; Wasserman et al., 2005; Wasserman, McReynolds, Schwalbe, Keating, & Jones, 2010).

While it is clear that a significant percentage of JJI youth have mental health problems, many have not received help or treatment for these issues prior to entering the system. One study found that only 34% of juvenile detainees with Anxiety, Mood, or Disruptive Behavior Disorders had ever received prior mental health treatment (Novins, Duclos, Martin, Jewett, & Manson, 1999). In another study, only 17% of juvenile detainees reported previous mental health treatment by a psychiatrist or therapist (Feinstein et al., 1998). A SAMHSA-funded study reported that while 94% of juvenile justice facilities had some type of mental health services available to youth, the quality and comprehensiveness of these services varied greatly based on the facility (Goldstrom, Jaiquan, Henderson, Male, & Manderscheid, 1998). Goldstrom et al. (1998) reported that 71% of juvenile detention centers offer mental health screening while only 56% conduct full evaluations. In facilities where full evaluations are offered, screenings and assessments are often not standardized (Hoge, 2002; Soler, 2002).

JUVENILE JUSTICE/MENTAL HEALTH DIVERSION PROGRAMS

The prevalence of juvenile justice youth with mental health issues is cause for alarm. While the juvenile justice system is often the first time a youth is screened for mental health problems, the system is often ill-prepared to properly treat these youth (Cocozza & Skowyra, 2000; Skowyra & Powell, 2006; Teplin et al., 2002; U.S. Department of Justice, 2005). In response to the growing number of youth entering the juvenile justice system with mental health issues and the lack of proper care in these facilities, many communities have developed diversion programs or mental health courts as an alternative to detention or incarceration. These programs allow for more in-depth assessment and

evaluation and more comprehensive and evidence-based treatment and supervision services than are available in typical juvenile justice facilities.

OHIO'S BEHAVIORAL HEALTH/JUVENILE JUSTICE (BHJJ) INITIATIVE

Over 15 years ago, Ohio's juvenile court judges met with representatives from the Ohio Department of Mental Health (ODMH) and the Ohio Department of Youth Services (ODYS) to address a growing and serious concern. Many of the youth who appeared in court demonstrated serious mental health and/or substance use problems. Not only did these judges lack the resources and expertise to identify, assess, and serve these youth, but there were few alternative programs into which these youth could be placed in lieu of a detention facility.

The state recommended funding local pilot projects in an attempt to divert youth who demonstrated a need for behavioral health service from incarceration and into community-based treatment settings. The pilot program operated in three counties in Ohio. While small in scope, the pilot project was successful in reducing the number of youth with behavioral health issues committed to the ODYS.

In 2005, the state allocated new resources to the Behavioral Health/Juvenile Justice (BHJJ) project and funded several counties throughout Ohio to expand upon the work accomplished in the pilot phase. The intent of the BHJJ project was to transform the local systems' ability to identify, assess, evaluate, and treat multi-need, multi-system youth and their families and to identify effective programs, practices, and policies. As in the pilot, the initiative was designed to divert JJI youth with mental health or substance use issues from detention and into community and evidence-based treatment. The state identified criteria to be used by participating counties to determine if a youth was appropriate for inclusion in the BHJJ project, including: a DSM-IV diagnosis, aged 10 to 18, substantial mental status impairment, co-occurring substance abuse, a pattern of criminal behavior, charged and/or adjudicated delinquent, a threat to public safety, exposed to trauma or domestic violence, and a history of multi-system involvement. Each county was able to determine which and how many criteria the youth had to meet to be eligible for participation.

Since 2006, 17 counties have been selected to participate in the BHJJ program. Urban, suburban, and rural counties have been included in the project. These counties were required to use evidence-based or evidence-informed treatment models; however, the state allowed each county to select the model that best fit the needs of their youth and families. Examples of the types of treatment models provided through BHJJ include Multi-systemic Therapy (MST), Functional Family Therapy (FFT), Integrated Co-Occurring Treatment (ICT), Trauma-Focused Cognitive Behavioral Therapy (TF-CBT), and Multidimensional Family Therapy (MDFT).

While each county employs slightly different protocols and procedures in the implementation of BHJJ, the juvenile court is the typical entry point into the program. Youth who have been charged with a crime are given a psychological assessment to determine if they meet criteria for inclusion in BHJJ. If the youth meets criteria and the youth and family agrees to participate, the youth is recommended for BHJJ participation. If the judge or magistrate accepts the recommendation, the youth is enrolled in the BHJJ program and referred or linked to the treatment agency responsible for providing the treatment services. In most cases the youth remains on probation supervision during their time in the BHJJ program. While residential placement is an option in some of the participating counties, a mission of

BHJJ is to provide treatment in the least restrictive setting possible and therefore the majority of the treatment is provided in-home or in outpatient settings.

A key component to the BHJJ program is the ongoing outcome evaluation provided by the Begun Center for Violence Prevention Research and Education at the Mandel School for Applied Social Sciences at Case Western Reserve University (Kretschmar, Butcher, & Flannery, 2016; Kretschmar, Butcher, Canary, & Devens, 2015). The current evaluation report includes data from 2006 through June 30, 2015. For information or copies of previous evaluation reports, please contact Dr. Jeff Kretschmar at jeff.kretschmar@case.edu or visit (<http://mha.ohio.gov/Default.aspx?tabid=136>).

MEASURES AND INSTRUMENTATION

All of the instruments collected as part of the BHJJ evaluation were in TeleForm© format. TeleForm© is a software program that allows for data transmission via fax machine, scanner, or .pdf file. Instruments are created using this software and once completed, can be faxed or scanned directly into a database.

OHIO YOUTH PROBLEM, FUNCTIONING, AND SATISFACTION SCALES (OHIO SCALES)

The Ohio Scales (Ogles, Melendez, Davis, & Lunnen, 2001) were designed to assess clinical outcomes for children with severe emotional and behavioral disorders, and were developed primarily to track service effectiveness. The measure assesses four primary domains of outcomes with four subscales: Problem Severity, Functioning, Hopefulness, and Satisfaction with services. In the Ohio Scales–Caregiver version, the caregiver rates his/her child’s problem severity and functioning, and the caregiver’s satisfaction with services and hopefulness about caring for his or her child. In the Ohio Scales–Youth version, the youth rates his/her own problem severity and functioning, and his/her satisfaction with services and hopefulness about life or overall well-being. The Worker version does not include the Satisfaction or Hopefulness scales. A score is generated for each of the four subscales, with a total score for the scale generated by summing the items.

TRAUMA SYMPTOM CHECKLIST FOR CHILDREN (TSCC)

The Trauma Symptom Checklist for Children (TSCC) is a 54-item Likert-type questionnaire containing six subscales designed to measure anxiety, anger, depression, posttraumatic stress, dissociation, and sexual concerns (Briere, 1996). Youth respond to a series of questions regarding the frequency of certain thoughts, events, or behaviors. Responses are made on a 4-point, 0-3 scale with “0” indicating “never” and “3” indicating “almost all the time”.

SUBSTANCE USE SURVEY – REVISED

This measure, adapted from the SAMHSA-funded Tapestry Project (a demonstration and research project that identifies, serves and follows youth and families from Cuyahoga County, Ohio, with significant behavioral and mental health needs), collects information reported by the youth about the frequency of his or her substance use, including tobacco, alcohol, marijuana, cocaine, painkillers, and several additional substances.

ENROLLMENT AND DEMOGRAPHICS FORM (ENROLLMENT FORM)

This form permits program staff to record several important pieces of information including date of enrollment, reasons for BHJJ services, DSM-IV diagnoses, Global Assessment of Functioning (GAF) scores, and agencies with which the youth is involved. In addition, out-of-home placement status, risk for placement, and educational and vocational data are collected.

CHILD INFORMATION UPDATE FORM (TERMINATION FORM)

This form is completed by the treatment staff at termination from the BHJJ program, and is used to record DSM-IV diagnoses, GAF score, date and reasons for termination from the program, and out-of-home placement risk. Educational and vocational data, as well as information related to contacts with the police are also captured.

RECENT EXPOSURE TO VIOLENCE

This 26-item optional scale measures several youth-reported violent acts: threats, beatings, hitting, knife attacks, sexual abuse, and shootings (adapted from Singer, Anglin, Song, & Lunghofer, 1995). Youths respond to a 4-point scale ranging from “0” (never) to “3” (almost every day). Subjects report separately on violence they have experienced directly and violence they have witnessed. For threats, slapping/hitting, and beatings, questions are specific to the setting in which the violence has occurred: at home, at school, or in the neighborhood. The remaining items do not specify the setting in which the violence occurred. This scale, which has an acceptable internal consistency (Cronbach’s alpha = .86), served as our measure of victimization.

CAREGIVER INFORMATION QUESTIONNAIRE (INTAKE AND TERMINATION)

The Caregiver Information Questionnaire, adapted from SAMHSA/Center for Mental Health Services (2005), permits staff to record information including demographics, risk factors, family composition, physical custody of the child, abuse history, family history of mental health issues, the child’s mental and physical health service use history, caregiver employment status, and child’s presenting problems.

YOUTH SERVICES SURVEY FOR FAMILIES

The Youth Services Survey for Families (YSSF) (SAMHSA) was designed to assess caregiver satisfaction with services the youth received, and if, as a result of those services, the youth is showing improved functioning. This measure was optional.

RECIDIVISM

Recidivism can be defined in many ways: a new offense, a violation of probation, new adjudication, or commitment to ODYS. Recidivism is a standard measure of program success, especially as an indicator of treatment outcomes over time. For this evaluation, recidivism was defined in three ways; a new misdemeanor or felony charge, a new adjudication, and a placement in an ODYS facility any time after enrollment in the BHJJ program. These data are provided to the evaluators by the juvenile court in each participating county. Recidivism data are presented for youth prior to and after enrollment and termination from BHJJ.

OHIO YOUTH ASSESSMENT SYSTEM (OYAS)

The OYAS is a criminogenic risk assessment tool designed to assist juvenile court staff with placement and treatment decisions based on a youth’s risk score. The OYAS contains five distinct

versions of the tool administered at different points in the juvenile justice process: Diversion, Detention, Disposition, Residential, and Reentry. Youth receive a total score and fall into three risk levels; low, moderate, or high. Each county’s juvenile court supplied OYAS data to the evaluators.

DATA COLLECTION SCHEDULE

The evaluation contains both mandatory and optional questionnaires (see Table 1 and Table 2).

Table 1. Required BHJJ Questionnaires

Measure	Who Completes	When Administered
Ohio Scales	Youth & Worker	Intake, every 3 months, Term
Trauma Symptom Checklist for Children (TSCC)	Youth	Intake, Term
Substance Use Survey – Revised (SUS)	Youth with Program Staff	Intake, every 6 months, Term
Enrollment and Demographics Information Form (EDIF)	Program Staff	Intake
Child Information Update Form (CIUF)	Program Staff	Term
Caregiver Information Questionnaire – Intake (CIQ-I)	Caregiver with Program Staff	Intake

Table 2. Optional BHJJ Questionnaires

Measure	Who Completes	When Administered
Ohio Scales	Caregiver	Intake, every 3 months, Term
Recent Exposure to Violence Scale (REVS)	Youth	Intake, Term
Caregiver Information Questionnaire – Term (CIQ-F)	Caregiver with Program Staff	Term
Youth Service Survey for Families (YSSF)	Caregiver	Term

PROJECT DESCRIPTION

The Franklin County BHJJ Initiative was developed to meet the treatment and support needs of youth who, at a minimum, are seriously emotionally disturbed, substance abusing, serious juvenile offenders and may be involved in the child welfare system. This model has improved intersystem communication and shared outcomes among the behavioral health, juvenile justice, and child welfare systems.

This project is supported by the Cross System Initiative Committee (CSI), a local partnership that includes ADAMH, Franklin County Children Services (FCCS), Franklin County Common Pleas Court, Division of Domestic Relations and Juvenile Branch (Juvenile Court), and Franklin County Family and Children First Council. The model moves a youth from the Franklin County Juvenile Court Pre-Sentence Investigation through a screening and assessment process that involves a care manager who coordinates and facilitates the service delivery team throughout the program. The service delivery team includes the youth and family, probation officer, school, family-defined support, treatment providers, and other system representatives as necessary.

The assessors, who are independently-licensed behavioral health clinicians housed at the court, complete a comprehensive, evidence-based diagnostic assessment that covers all youth/family domains, is family-focused and strengths-based, includes criminogenic risk factors, and provides evidence-based recommendations. The clinicians are co-located at Juvenile Court to expedite the assessment process and enhance the collaboration between the two systems. The assessors are also available to present the identified treatment recommendations to the judges/magistrates.

The Massachusetts Youth Screening Instrument-Version 2 (MAYSI-2) is used by court staff on all youth coming through Pre-Sentence Investigation, as well as with youth involved with Intake, Probation, and Juvenile Detention Center. The court's care coordinators work closely with the BHJJ clinicians to arrange BHJJ assessments of youth referred by the court. These youth include not only probation-involved youth but also youth for which the care coordinators are performing a case management function for adjudicated and non-adjudicated youth in an effort to prevent further penetration into the juvenile justice system. Additional eligibility criteria can include:

- Male or female ages 12 to 17
- DSM IV diagnosis
- Substantial mental status impairment in behavioral, cognitive, or affective functioning
- Co-occurring substance abuse disorders
- Adjudicated delinquent
- Learning disabilities and developmental disabilities
- Violent or pattern of criminal behavior

Treatment recommendations are individualized, based on the youth and family's particular mental health and/or substance abuse needs, with consideration also being given to location/transportation, individual preferences, level of urgency, current custody arrangements (e.g., youth in shelter care, group homes, or other out of home placements) as well as the age of the youth. Treatment recommendations are for evidence-based and evidence-informed programs that have been successful in addressing the needs of this diverse population. The following table captures the services available in Franklin County:

Treatment Model	Funding
MST (Multisystemic Therapy)	ADAMH Board of Franklin County, Franklin County Children Services & Franklin County Family and Children First Council
FFT (Functional Family Therapy)	ADAMH Board of Franklin County, Franklin County Children Services & Franklin County Juvenile Court
MDFT (Multidimensional Family Therapy)	Franklin County Children Services & Franklin County Juvenile Court
ICT (Integrated Co-occurring Treatment)	ADAMH Board of Franklin County, Department of Justice Re-Entry grant

Successful completion of the Franklin County BHJJ programs is defined as successful completion of the individualized treatment plan created by the youth, family and ongoing treatment provider.

DESCRIPTION OF THE ANALYSES USED IN THE REPORT

Several types of inferential statistics are used throughout the report. Three types of bivariate analyses are discussed throughout both the overall report and the county specific reports. The chi-square analysis refers to a bivariate technique where a relationship between two variables is tested to determine if there are any significant differences. For example, if we are interested in whether males and females differ on whether they have ever used alcohol, a chi-square test is used. If there is a statistically significant result, this indicates that the difference between females and males is unlikely to have occurred by chance. Thus, we would describe the difference for the gender groups as a *real difference* rather than one that could have occurred by chance.

In instances where the bivariate relationship of interest is a measure that is both a yes/no measure and one that is repeated, a McNemar's test is used. For example, if we are interested in whether there is a statistically significant decrease in the proportion of youth using alcohol in the past six months from intake to termination, we would use a McNemar's test. A statistically significant result would indicate that the observed difference in six month use from intake to termination is a real difference and one that likely did not occur by chance.

The third type of bivariate analysis used throughout the report is the t-test. T-tests are similar to chi-square tests in that they test two variables to determine whether there are significant differences. For example, if we are interested in whether females and males differ on their levels of posttraumatic stress symptoms, a t-test is used. Since the variable posttraumatic stress lies on a continuous scale, we examine whether the corresponding means for the two gender groups significantly differ. Independent samples t-tests are used when there are two distinct groups (e.g. female and male) while paired samples t-tests are used when we are interested in whether means for the same group from different time points differ significantly (e.g. pre/post differences).

While statistical significance is an indication of how likely differences between groups or time points could occur by chance, effect sizes measure the magnitude of these observed differences. In other words, while statistical significance tells us whether a difference exists, effect sizes tell us how much of a difference exists. Effect sizes as represented by Cohen's *d* are also presented using the recommended criteria for its interpretation in Cohen's (1988) seminal work. Interpretation of Cohen's *d* is based on the criteria where 0.2 indicates a small effect size, 0.5 indicates a medium effect, and 0.8 indicates a large effect¹.

¹ For a more thorough review see Cohen, J. (1988). *Statistical power analysis for the behavioral sciences* (2nd ed.). Hillsdale, NJ: Lawrence Erlbaum.

FRANKLIN COUNTY

DEMOGRAPHICS

Franklin County has enrolled 470 youth in the BHJJ program since 2006. Of the 470 youth enrolled, 19.3% (n = 90) were female and 80.7% (n = 377) were male (data were missing for three youth). Since July 2013, 72.7% (n = 64) of new enrollees have been male (see Table 3).

The majority of the overall sample of youth were either Caucasian (30.7%, n = 141) or African American (54.0%, n = 248). The remainder of the population were categorized as “Other” (15.2%, n = 70). A similar pattern was found for youth enrolled since July 2013, although a slightly lower proportion of African Americans (48.9%, n = 43) and slightly higher proportion of Caucasians (33.0%, n = 29) was observed. The average age of the youth at intake into BHJJ was 15.9 years old (SD = 1.51) with a range between 10.5 and 18.0 years.

Table 3. Demographic Information for BHJJ Youth in Franklin County

	All Youth Enrolled (2006 - 2015)	Youth Enrolled between July 2013 – June 2015
Gender	Female = 19.3% (n = 90) Male = 80.7% (n = 377)	Female = 27.3% (n = 24) Male = 72.7% (n = 64)
Race	African American = 54.0% (n = 248) Caucasian = 30.7% (n = 141) Other = 15.2% (n = 70)	African American = 48.9% (n = 43) Caucasian = 33.0% (n = 29) Other = 18.1% (n = 16)
Age at Intake	15.9 years (SD = 1.51)	16.1 years (SD = 1.34)

CUSTODY ARRANGEMENT AND HOUSEHOLD INFORMATION

At intake, the majority of youth lived with the biological mother (62.9%, n = 283) (see Table 4). At time of enrollment, 87.6% (n = 394) of the BHJJ youth lived with at least one biological parent.

Over 76% of the BHJJ caregivers (76.6%, n = 334) had at least a high school diploma or GED, and 6.0% (n = 26) had a bachelor’s degree or higher (see Table 5). Over one in five caregivers (23.4%, n = 102) reported that they did not graduate from high school.

Caregivers reported their annual household income. The median household income for BHJJ families was between \$15,000 - \$19,999 (see Table 6). Over 80% (80.1%, n = 347) reported annual household incomes below \$35,000 and 55.9% (n = 242) reported an annual household income below \$20,000. One in three BHJJ families (33.7%, n = 146) reported an annual household income below \$10,000.

Table 4. Custody Arrangement for BHJJ Youth in Franklin County

Custody	BHJJ Youth
Two Biological Parents or One Biological and One Step or Adoptive Parent	16.0% (n=72)
Biological Mother Only	62.9% (n=283)
Biological Father Only	8.7% (n=39)
Adoptive Parent(s)	2.2% (n=10)
Sibling	1.1% (n=5)
Aunt/Uncle	3.1% (n=14)
Grandparents	4.2% (n=19)
Friend	0.0% (n=0)
Ward of the State	0.9% (n=4)
Other	0.9% (n=4)

Table 5. Educational Outcomes for Caregivers of BHJJ Youth in Franklin County

Number of School Years Completed	Number of Caregivers
Less than High School	23.4% (n=102)
High School Graduate or G.E.D.	41.7% (n=182)
Some College or Associate Degree	28.9% (n=126)
Bachelor's Degree	3.2% (n=14)
More than a Bachelor's Degree	2.8% (n=12)

Table 6. Annual Household Income for BHJJ Families in Franklin County

Annual Household Income	BHJJ Families
Less than \$5,000	23.8% (n=100)
\$5,000 - \$9,999	9.3% (n=39)
\$10,000 - \$14,999	14.3% (n=60)
\$15,000 - \$19,999	8.1% (n=34)
\$20,000 - \$24,999	13.5% (n=57)
\$25,000 - \$34,999	11.2% (n=47)
\$35,000 - \$49,999	12.4% (n=52)
\$50,000 - \$74,999	4.5% (n=19)
\$75,000 - \$99,999	1.9% (n=8)
\$100,000 and over	1.2% (n=5)

YOUTH AND FAMILY HISTORY

Caregivers were asked to respond to a series of questions designed to obtain data related to the youth's family history (see Table 7). Chi-square analysis was conducted on each item and significant differences are identified in Table 7. Caregivers reported that a significantly higher proportion of females than males had a history of sexual abuse, running away, talking about suicide, attempting suicide, and a family history of mental illness other than depression. Caregivers reported that a significantly higher proportion of males had a history of substance abuse than females.

Table 7. Youth and Family History in Franklin County

Question	Females	Males
Has the child ever been physically abused?	13.1% (n=11)	11.2% (n=40)
Has the child ever been sexually abused?	16.7% (n=14) ^{***}	3.7% (n=13)
Has the child ever run away?	44.2% (n=38) ^{**}	28.7% (n=100)
Has the child ever had a problem with substance abuse, including alcohol and/or drugs?	30.6% (n=26)	47.9% (n=172) ^{**}
Has the child ever talked about committing suicide?	40.7% (n=35) ^{***}	19.9% (n=72)
Has the child ever attempted suicide?	18.8% (n=16) ^{***}	4.2% (n=15)
Has the child ever been exposed to domestic violence or spousal abuse, of which the child was not the direct target?	36.5% (n=31)	31.5% (n=115)
Has anyone in the child's biological family ever been diagnosed with depression or shown signs of depression?	51.2% (n=43)	47.2% (n=167)
Has anyone in the child's biological family had a mental illness, other than depression?	42.5% (n=34) ^{**}	25.1% (n=87)
Has the child ever lived in a household in which someone was convicted of a crime?	48.7% (n=38)	41.8% (n=146)
Has anyone in the child's biological family had a drinking or drug problem?	56.5% (n=48)	48.3% (n=169)
Is the child currently taking any medication related to his/her emotional or behavioral symptoms?	17.6% (n=15)	13.6% (n=48)

^{**} p < .01, ^{***} p < .001

At intake, caregivers were asked if the youth had ever been pregnant (or if male, had ever impregnated a female) and if they were currently expecting a child. Caregivers reported that 4.5% (n = 3) of females had been pregnant but none were currently expecting a child. Caregivers reported that 8.2% (n = 20) of males had impregnated a female and of those youth, 35.0% (n = 7) were currently expecting a child. Five percent of females (n = 2) and (6.6%, n = 12) of males currently had children. Of those who had children, 50% of females (n = 1) and 8.3% (n = 1) of males currently lived with the child.

OHIO YOUTH ASSESSMENT SYSTEM

The OYAS is a criminogenic risk assessment tool designed to assist juvenile court staff with placement and treatment decisions based on a youth's risk score. Distribution of Franklin County youth based on the OYAS risk categories by gender and race are presented in Table 8. Chi-square analyses revealed significant group differences in the OYAS categories based on gender (p = .017) and race (p <

.001). A greater percentage of males (26.3%) than females (16.1%) and a greater percentage of Nonwhite youth (28.6%) than White youth (15.1%) were identified as high risk to reoffend.

Table 8. OYAS Categories by Race and Gender for Franklin County

	OYAS Low	OYAS Moderate	OYAS High
Female	37.5% (n = 21)	46.4% (n = 26)	16.1% (n = 9)
Male*	20.4% (n = 21)	53.3% (n = 136)	26.3% (n = 67)
White	37.6% (n = 35)	47.3% (n = 44)	15.1% (n = 14)
Nonwhite*	17.5% (n = 38)	53.9% (n = 117)	28.6% (n = 62)

*p < .05

DSM-IV DIAGNOSES

Workers were asked to report any DSM-IV Axis I diagnoses at intake into the BHJJ program. These diagnoses were either identified through a psychological assessment given as part of the enrollment process or in some cases, from psychological assessments given in close proximity to a youth’s enrollment in BHJJ. As shown in Table 9, the most common Axis I diagnosis for females was Oppositional Defiant Disorder (35.2%, n = 31) while Cannabis-related disorder was the most common diagnosis for males (48.4%, n = 178).

A total of 1,006 Axis I diagnoses were identified for 456 youth with diagnostic information (2.21 diagnoses per youth). Females reported 172 Axis I diagnoses (1.95 diagnoses per female) and males reported 834 Axis I diagnoses (2.27 diagnoses per male). Chi-square analysis indicated that a significantly higher proportion of females were diagnosed with Post-traumatic Stress Disorder while a significantly higher proportion of males were diagnosed with Cannabis-related Disorders, Attention Deficit Hyperactivity Disorder, and Conduct Disorder. Of the youth who had available diagnostic information, 19.8% (n = 17) of females and 50.4% (n = 185) of males had a co-occurring substance use and mental health diagnosis.

Table 9. Most Common DSM-IV Axis I Diagnoses in Franklin County

DSM-IV Axis I Diagnosis	Females	Males
Alcohol-related Disorders	5.7% (n = 5)	7.6% (n = 28)
Attention Deficit Hyperactivity Disorder	15.9% (n = 14)	29.9% (n = 110)**
Bipolar Disorder	2.3% (n = 2)	1.9% (n = 7)
Cannabis-related Disorders	14.8% (n = 13)	48.4% (n = 178)***
Conduct Disorder	14.8% (n = 13)	31.3% (n = 115)**
Depressive Disorders	30.7% (n = 27)	22.3% (n = 82)
Mood Disorder	15.9% (n = 14)	9.8% (n = 36)
Oppositional Defiant Disorder	35.2% (n = 31)	25.0% (n = 92)
Post-traumatic Stress Disorder	8.0% (n = 7)**	1.1% (n = 4)

** p < .01, ***p < .001

EDUCATIONAL AND VOCATIONAL INFORMATION

EDUCATIONAL DATA

Several items that focused on educational and vocational information were included in the evaluation packet at both intake and termination from the BHJJ program. The items were completed by the worker with help from the youth and caregiver. In the 12 months prior to intake, 77.4% (n = 240) were either suspended or expelled from school. While in treatment with BHJJ, 30.6% (n = 78) of BHJJ youth were either suspended or expelled from school.

Educational data were analyzed for youth who were eligible for inclusion (youth on summer break or who had graduated at the time of the survey were not included in the analyses). At intake, 86.6% (n = 253) of youth were currently attending school excluding those on summer break. At termination, 82.2% (n = 194) of youth were attending school. Again, this does not include youth out of school due to summer break. If the youth was attending school, the worker was asked to identify the types of grades the youth typically received (see Table 10). At intake, 7.2% (n = 21) of youth received mostly A's and B's while 16.8% (n = 40) received mostly A's and B's at termination. Table 11 presents the academic performance of BHJJ youth in Franklin County from intake to termination based on completion status. For youth who successfully completed treatment, 22.0% (n = 36) received mostly A's and B's while 4.7% (n = 3) of youth who completed treatment unsuccessfully received mostly A's and B's.

At termination, workers reported that 41.3% (n = 105) of youth were attending school more than before starting treatment and 43.7% (n = 111) of youth were attending school 'about the same' amount compared to before starting treatment. Workers reported 11.8% (n = 30) of youth were attending school less often than before treatment in BHJJ.

Table 10. Academic Performance in Franklin County

Typical Grades	Frequency at Intake	Frequency at Termination
Mostly A's and B's	7.2% (n = 21)	16.8% (n = 40)
Mostly B's and C's	16.2% (n = 47)	35.3% (n = 84)
Mostly C's and D's	33.7% (n = 98)	29.0% (n = 69)
Mostly D's and F's	43.0% (n = 125)	18.9% (n = 45)

Table 11. Academic Performance in Franklin County by Completion Status

Typical Grades	Unsuccessful Completers		Successful Completers	
	Frequency at Intake	Frequency at Termination	Frequency at Intake	Frequency at Termination
Mostly A's and B's	8.6% (n = 6)	4.7% (n = 3)	6.8% (n = 11)	22.0% (n = 36)
Mostly B's and C's	11.4% (n = 8)	28.1% (n = 18)	16.7% (n = 27)	39.6% (n = 65)
Mostly C's and D's	30.0% (n = 21)	29.7% (n = 19)	29.6% (n = 48)	28.7% (n = 47)
Mostly D's and F's	50.0% (n = 35)	37.5% (n = 24)	46.9% (n = 76)	9.8% (n = 16)

OHIO SCALES

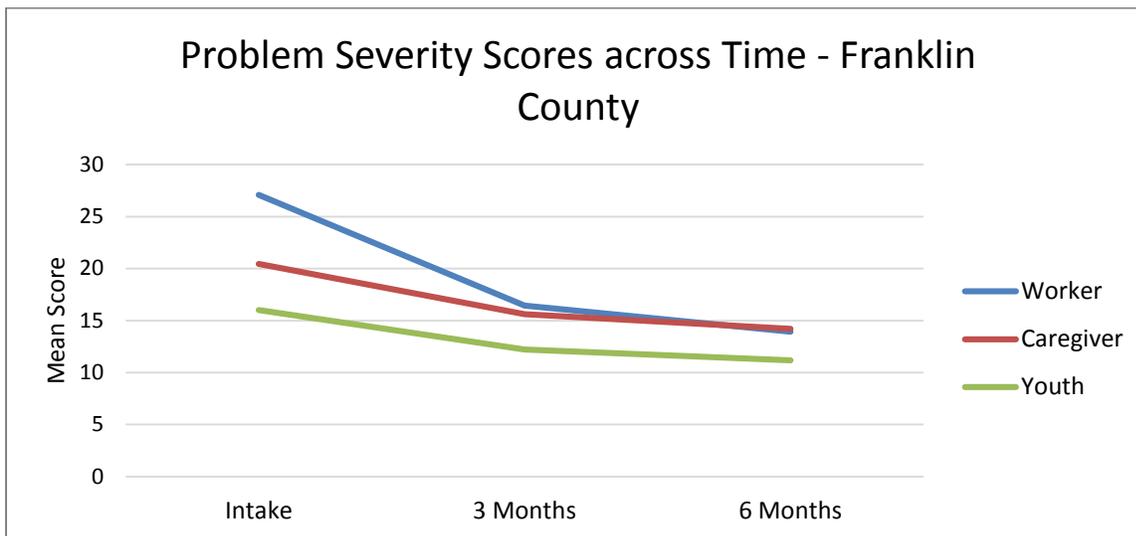
One of the main measures in the data collection packet was the Ohio Scales. The Ohio Scales were completed by the youth, caregiver, and worker at intake and then every three months following intake until termination from services. Because termination can occur at any point in time along the continuum of service, separate charts are included that display the means from intake to termination. Decreases in Problem Severity and increases in Functioning correspond to positive change.

All Problem Severity and Functioning analyses were conducted on assessment periods with enough valid cases to produce meaningful results. Paired samples t-tests were used to compare Problem Severity scores at intake to Problem Severity scores at the other assessment periods. A paired samples t-test compares the means of two variables by computing the difference between the two variables for each case and testing to see if the average difference is significantly different from zero. In order for a case to be included in the analyses, the rater must have scores for both assessment periods. For example, a caregiver must supply scores for both the intake and 3 month assessment period to be included in the paired samples t-test for that time point. If the caregiver only has an intake score, his or her data is not included in the analysis.

PROBLEM SEVERITY

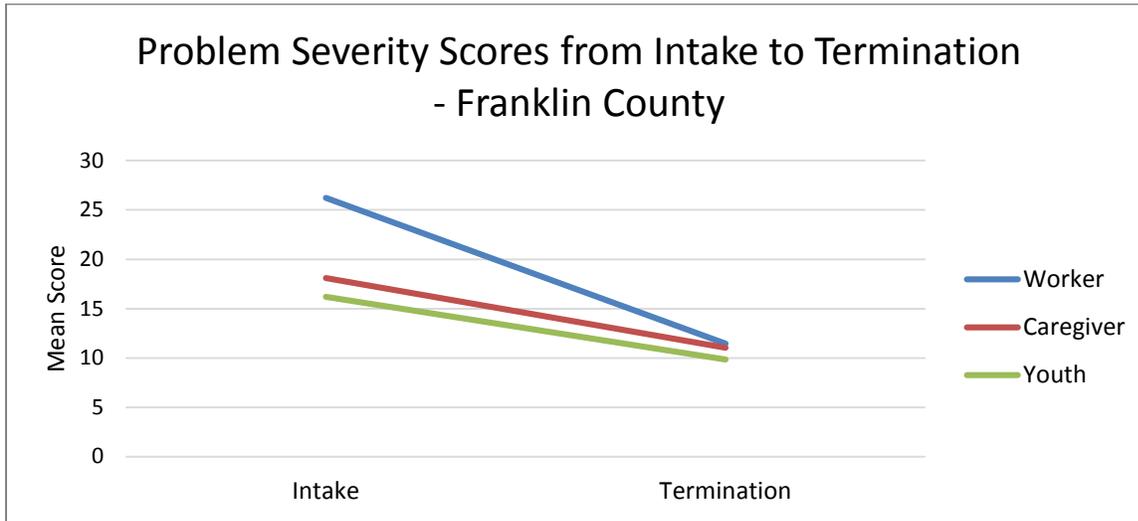
Overall means for the Problem Severity scale by rater and assessment period for Franklin County youth are represented graphically in Figure 1. Means from intake to termination are presented in Figure 2.

Figure 1. Problem Severity Scores across Time - Franklin County



*all comparisons from intake to each successive time point are significant at least at the $p < .01$ level

Figure 2. Problem Severity Scores from Intake to Termination - Franklin County



*all comparisons from intake to termination are significant at the $p < .001$ level

CAREGIVER RATING

Paired samples t-tests revealed significant improvements in Problem Severity at each measurement interval (see Table 12) compared to intake. Significant improvements were noted at three months $t(138) = 5.04, p < .001$; six months: $t(72) = 2.76, p < .01$; and at termination: $t(120) = 5.69, p < .001$. Small effect sizes were found for intake to three months and intake to six months, while a moderate effect size was found for intake to termination.

Table 12. Paired Samples T-Tests for Caregiver Report Problem Severity Scores for Franklin County

	Mean Time 1	Mean Time 2	<i>t</i>	<i>d</i>
Intake to Three Months	21.76 (SD=15.87; n=139)	15.73 (SD=13.03; n=139)	5.04***	.42
Intake to Six Months	19.47 (SD=13.81; n=73)	14.22 (SD=12.29; n=73)	2.76**	.40
Intake to Termination	18.10 (SD=14.48; n=121)	11.02 (SD=12.18; n=121)	5.69***	.53

** $p < .01$, *** $p < .001$

WORKER RATING

For workers, paired samples t-tests indicated significant improvement in Problem Severity at every data collection point (see Table 13). Significant improvements were noted at three months $t(338) = 8.87, p < .001$; six months: $t(50) = 4.81, p < .001$; and at termination: $t(708) = 13.18, p < .001$. Large effect sizes were noted for all time periods.

Table 13. Paired Samples T-Tests for Worker Report Problem Severity Scores for Franklin County

	Mean Time 1	Mean Time 2	<i>t</i>	<i>d</i>
Intake to Three Months	26.7 (SD=12.37; n=315)	16.54 (SD=11.18; n=315)	13.39***	.86
Intake to Six Months	27.52 (SD=13.15; n=172)	13.95 (SD=9.60; n=172)	12.54***	1.18
Intake to Termination	26.23 (SD=11.92; n=264)	11.70 (SD=11.00; n=264)	18.15***	1.27

*** $p < .001$

YOUTH RATING

Scores on the Problem Severity scale as reported by youth showed significant improvement for all three measurement intervals (see Table 14). Significant improvements were noted at three months $t(327) = 6.75, p < .001$; six months: $t(45) = 3.05, p < .01$; and at termination: $t(471) = 12.58, p < .001$. A small effect size was noted for the time period between intake and three months and intake and six months, while a medium effect size was noted for intake to termination.

Table 14. Paired Samples T-Tests for Youth Report Problem Severity Scores for Franklin County

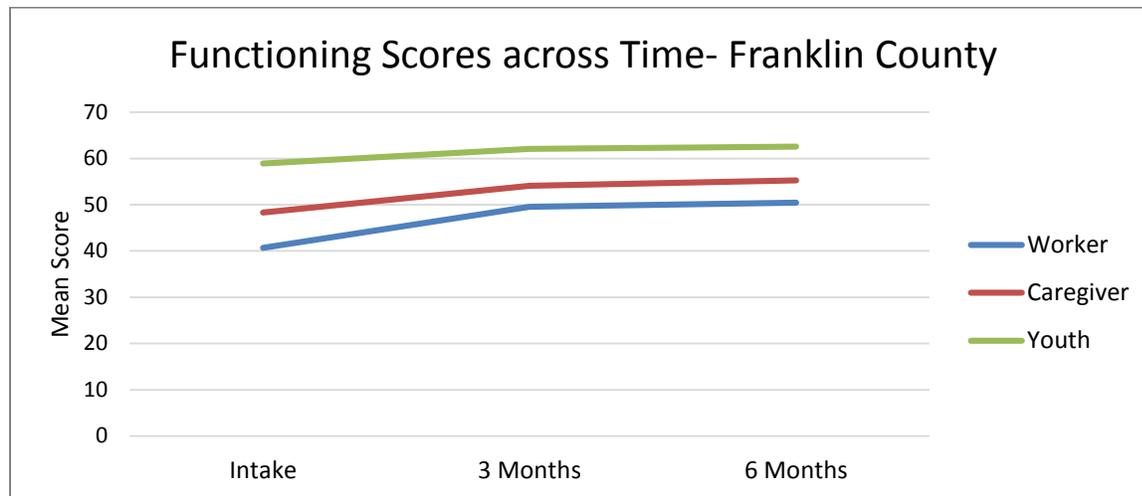
	Mean Time 1	Mean Time 2	<i>t</i>	<i>d</i>
Intake to Three Months	15.62 (SD=12.61; n=299)	12.22 (SD=10.26; n=299)	4.81***	.30
Intake to Six Months	16.91 (SD=12.97; n=153)	11.23 (SD=9.97; n=153)	6.09***	.49
Intake to Termination	16.21 (SD=11.52; n=251)	9.84 (SD=10.15; n=251)	8.45***	.59

*** $p < .001$

FUNCTIONING

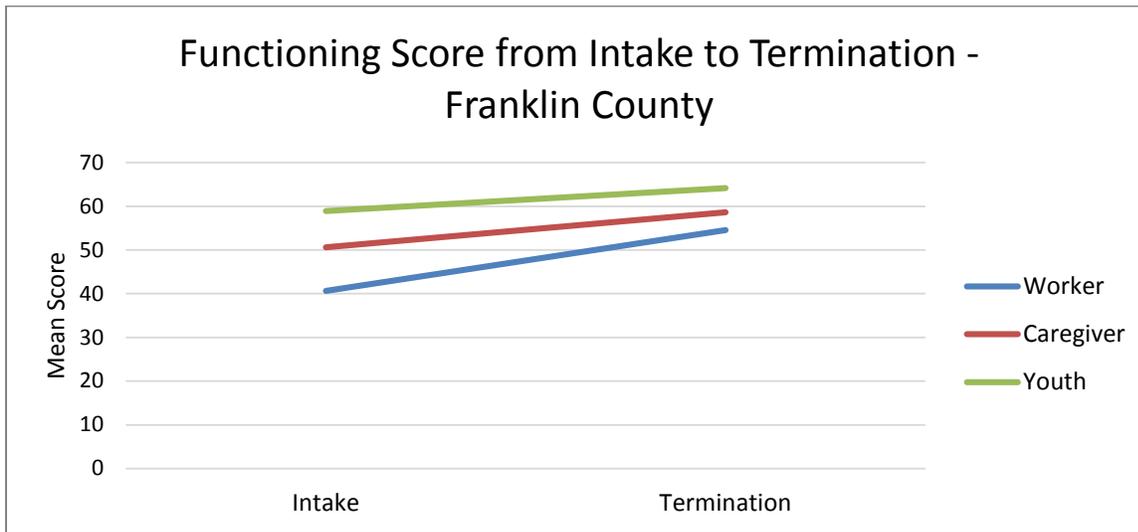
Overall means for the Functioning scale by rater and assessment period for Franklin County youth are represented graphically in Figure 3. Means from intake to termination are presented in Figure 4.

Figure 3. Functioning Scores across Time - Franklin County



*all comparisons from intake to each successive time point are significant at the $p < .001$ level

Figure 4. Functioning Scores from Intake to Termination - Franklin County



*all comparisons from intake to termination are significant at the $p < .001$ level

CAREGIVER RATING

Paired samples t-tests revealed significant improvements in Functioning at each measurement interval (see Table 15) compared to intake. Significant improvements were noted at three months: $t(137) = -4.17, p < .001$; six months: $t(71) = -3.81, p < .001$; and termination: $t(117) = -5.53, p < .001$. A small effect size was noted for intake to three months, while a moderate effect size was noted for all other time periods.

Table 15. Paired Samples T-Tests for Caregiver Report Functioning Scores for Franklin County

	Mean Time 1	Mean Time 2	<i>t</i>	<i>d</i>
Intake to Three Months	48.04 (SD=16.57; n=138)	53.89 (SD=14.83; n=138)	-4.17***	.37
Intake to Six Months	48.03 (SD=15.59; n=72)	55.58 (SD=13.40; n=72)	-3.81***	.52
Intake to Termination	50.60 (SD=16.36; n=118)	58.65 (SD=13.93; n=118)	-5.53***	.53

*** $p < .001$

WORKER RATING

For workers, paired samples t-tests indicated significant improvement in the Functioning scale for each of the measurement intervals (see Table 16). Significant improvements were noted at three months: $t(304) = -9.50, p < .001$; six months: $t(167) = -7.71, p < .001$; and termination: $t(261) = -13.61, p < .001$. Large effect sizes were found for intake to six months and intake and termination, while a medium effect size was found for intake to three months.

Table 16. Paired Samples T-Tests for Worker Report Functioning Scores for Franklin County

	Mean Time 1	Mean Time 2	<i>t</i>	<i>d</i>
Intake to Three Months	41.08 (SD=12.01; n=305)	49.43 (SD=13.98; n=305)	-9.50 ^{***}	.64
Intake to Six Months	40.37 (SD=11.39; n=168)	50.33 (SD=13.21; n=168)	-7.71 ^{***}	.81
Intake to Termination	40.68 (SD=11.88; n=262)	54.55 (SD=15.70; n=262)	-13.61 ^{***}	.99

****p* < .001

YOUTH RATING

Paired samples t-tests conducted on the youth ratings of Functioning indicated significant improvement at all three data collection points (see Table 17). Significant improvements were observed at three months: $t(301) = -3.88, p < .001$; six months: $t(155) = -3.78, p < .001$; and termination: $t(254) = -6.01, p < .001$. Small effect sizes were noted for all measurement intervals.

Table 17. Paired Samples T-Tests for Youth Report Functioning Scores for Franklin County

	Mean Time 1	Mean Time 2	<i>t</i>	<i>d</i>
Intake to Three Months	59.03 (SD=13.18; n=302)	61.99 (SD=12.33; n=302)	-3.88 ^{***}	.23
Intake to Six Months	57.18 (SD=15.19; n=156)	62.44 (SD=12.29; n=156)	-3.78 ^{***}	.38
Intake to Termination	58.92 (SD=12.82; n=255)	64.16 (SD=12.98; n=255)	-6.01 ^{***}	.41

****p* < .001

The Trauma Symptom Checklist for Children (TSCC) was administered to youth in the BHJJ program in Franklin County at both intake and termination. The TSCC is made up of six subscales: Anxiety, Depression, Anger, Posttraumatic Stress, Dissociation, and Sexual Concerns. Higher scores on each of the subscales indicate higher levels of trauma symptoms. As described in the TSCC section in the overall BHJJ report, TSCC subscale scores are reported for youth ages 13-17 and those who were not identified as either underresponders or hyperresponders. The removal of such a large number of youth who were identified as “Underresponders” had a significant impact on the paired samples t-test results and the effect sizes. We are currently examining the practicality of removing these youth from the analyses.

Paired samples t-tests were conducted on the six subscales for Franklin County BHJJ youth who have subscale scores both at intake and at termination (see Table 18). Data were available for youth aged 8-17 who had completed the TSCC at both intake and termination, and youth who were not identified as either underresponders or hyperresponders. Effect sizes, represented by Cohen’s *d*, are also presented using the recommended criteria for its interpretation in Cohen’s (1988) seminal work. Interpretation of Cohen’s *d* is based on the criteria where 0.2 indicates a small effects size, 0.5 indicates a medium effect, and 0.8 indicates a large effect². While statistical significance refers to whether the observed differences in the means are likely to have occurred by chance, effect sizes measure the magnitude of the observed differences.

Statistically significant improvements were noted for all subscales including: Anxiety ($t(135) = 2.17, p < .001$), Depression ($t(135) = 3.61, p < .001$), Anger ($t(135) = 4.68, p < .001$), Posttraumatic Stress ($t(135) = 3.51, p < .001$), Dissociation ($t(135) = 2.24, p < .05$), and Sexual Concerns ($t(135) = 2.77, p < .01$). The data indicated small effect sizes for all subscales except Depression. Means reported in Table 18 are represented graphically in Figure 5.

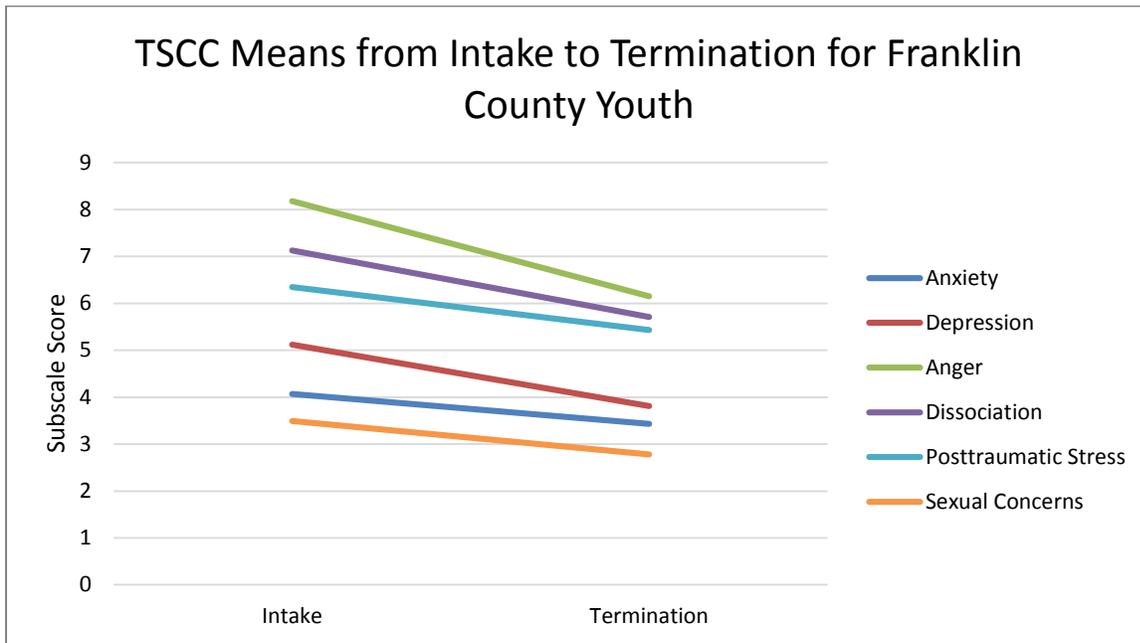
Table 18. Paired Samples T Tests for TSCC Subscales for Franklin County Youth

	Intake	Termination	t	d
Anxiety	4.07 (SD=3.37; n=136)	3.43 (SD=3.11; n=136)	2.17***	.20
Depression	5.12 (SD=4.01; n=136)	3.81 (SD=3.40; n=136)	3.61***	.52
Anger	8.18 (SD=4.71; n=136)	6.15 (SD=4.47; n=136)	4.68***	.44
PTS	7.13 (SD=5.25; n=136)	5.71 (SD=4.38; n=136)	3.51***	.29
Dissociation	6.35 (SD=4.37; n=136)	5.43 (SD=4.21; n=136)	2.24*	.21
Sexual Concerns	3.49 (SD=2.77; n=136)	2.78 (SD=3.18; n=136)	2.77**	.24

* $p < .05$, ** $p < .01$, *** $p < .001$

² For a more thorough review see Cohen, J. (1988). *Statistical power analysis for the behavioral sciences* (2nd ed.). Hillsdale, NJ: Lawrence Erlbaum.

Figure 5. TSCC Means from Intake to Termination for Franklin County Youth



SUBSTANCE USE

Every six months the youth completed a self-report measure of substance use. The survey was designed to measure any lifetime use of each drug as well as patterns of current use. Table 19 presents the percentages of BHJJ youth who reported ever using alcohol or drugs and the average age of first use. Alcohol, cigarettes, and marijuana were the three most commonly used substances for both males and females. Chi-square analyses revealed that a significantly higher proportion of males reported lifetime use of marijuana than females. Females report a significantly higher use of cocaine and pain killers than males.

Table 19. Self-Report Substance Use at Intake for Franklin County BHJJ Youth

	Males		Females	
	% Ever Used	Age of First Use	% Ever Used	Age of First Use
Alcohol	64.3% (n = 227)	13.79 (SD = 1.96)	54.1% (n = 46)	13.61 (SD = 1.87)
Cigarettes	52.7% (n = 187)	13.16 (SD = 2.20)	44.7% (n = 38)	12.50 (SD = 2.76)
Chewing Tobacco	6.6% (n = 23)	13.39 (SD = 2.43)	3.5% (n = 3)	12.67 (SD = 3.22)
Marijuana	80.0% (n = 284)*	13.56 (SD = 2.67)	68.2% (n = 58)	13.61 (SD = 1.69)
Cocaine	2.8% (n = 10)	15.20 (SD = 1.23)	8.4% (n = 7)*	14.67 (SD = 1.21)
Pain Killers (use inconsistent with prescription)	9.7% (n = 35)	13.87 (SD = 1.91)	17.6% (n = 15)*	14.46 (SD = 1.98)
GHB	0.0% (n = 0)	N/A	0.0% (n = 0)	N/A
Inhalants	2.0% (n = 7)	13.83 (SD = 1.47)	0.0% (n = 0)	N/A
Heroin	0.3% (n = 1)	16.00 ^a	1.2% (n = 1)	13.00
Amphetamines	0.8% (n = 3)	15.00 (SD = 1.41)	0.0% (n = 0)	N/A
Ritalin (use inconsistent with prescription)	7.4% (n = 26)	12.54 (SD = 3.60)	8.4% (n = 7)	13.29 (SD = 1.80)
Barbiturates	0.3% (n = 1)	15.00	1.2% (n = 1)	14.00
Non-prescription Drugs	3.1% (n = 11)	14.40 (SD = 1.65)	6.0% (n = 5)	14.25 (SD = 3.50)
Hallucinogens	4.2% (n = 15)	14.93 (SD = 0.96)	0.0% (n = 0)	N/A
PCP	0.3% (n = 1)	15.00	0.0% (n = 0)	N/A
Ketamine	0.0% (n = 0)	N/A	0.0% (n = 0)	N/A
Ecstasy	3.1% (n = 11)	14.64 (SD = 1.86)	7.1% (n = 6)	14.50 (SD = 1.23)
Tranquilizers	2.8% (n = 10)	14.80 (SD = 1.40)	2.4% (n = 2)	13.00 (SD = 1.41)

*p < .05;

^aStandard Deviations are not calculated when only one respondent reported using a substance.

SIX MONTH SUBSTANCE USE

Youth were also asked to report whether they had used each substance in the past six months. Figure 6 and Figure 7 present past six month use for the most commonly reported substances for males and females respectively among those who reported lifetime use. The percentage of those using substances decreased among the most commonly reported substances except for cigarette use among females. Past six month alcohol use among males decreased from 60.6% (n = 129) at intake to 36.2% (n = 38) at termination. Past six month alcohol use among females decreased from 76.2% (n = 32) at intake to 22.7% (n = 5) at termination. Past six month marijuana use among males decreased from 79.9% (n = 223) at intake to 46.3% (n = 62) at termination. Past six month marijuana use among females decreased from 74.5% (n = 41) to 39.3% (n = 11) at termination. McNemar's tests revealed a significant decrease in using alcohol and marijuana from intake to termination among males and females.

Figure 6. Self-Report Previous 6 Month Substance Use from Intake to Termination for Males - Franklin County

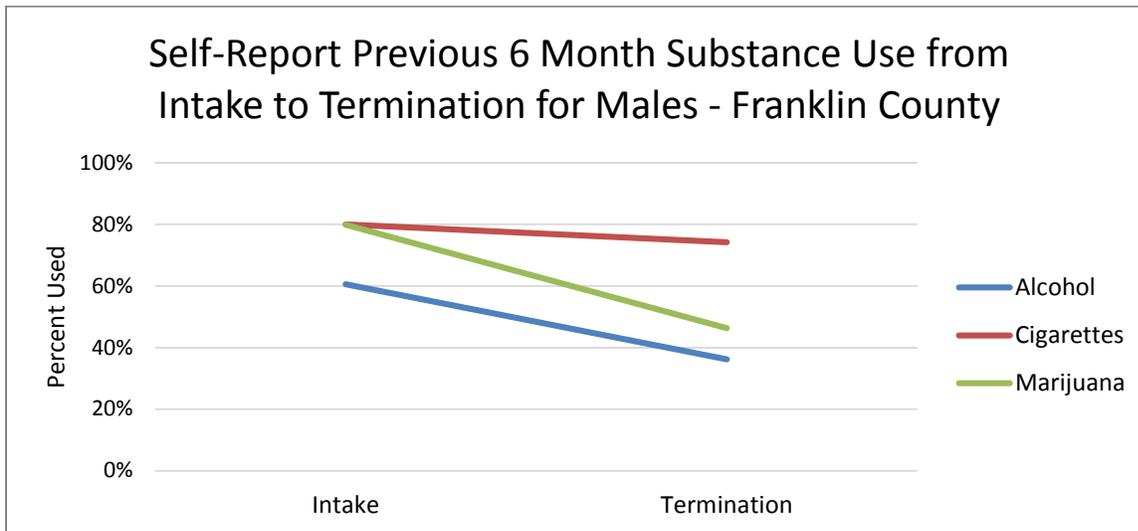
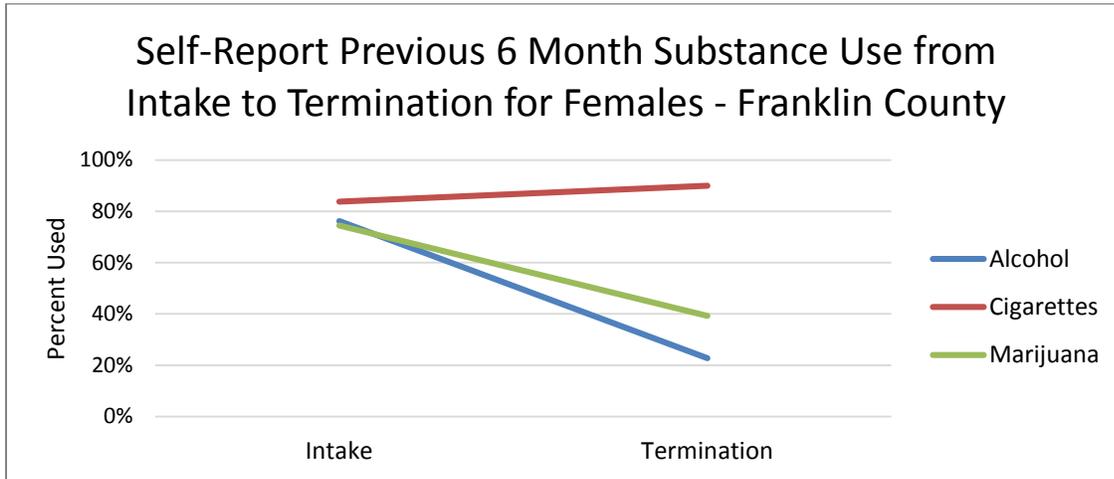


Figure 7. Self-Report Previous 6 Month Substance Use from Intake to Termination for Females – Franklin County



30 DAY SUBSTANCE USE

If youth had reported any lifetime use and if they had reported use in the past six months, youth were asked how many days they had used each substance in the past 30 days. Figure 8 and Figure 9 show the average number of days use in the previous 30 days for the three most commonly reported substances by gender. Thirty day use declined from intake to termination for the three most commonly reported substances. Thirty day use of alcohol among males decreased from 1.61 days of (SD = 3.55; n = 119) at intake to 0.52 days (SD = 1.73; n = 56) at termination. Thirty day alcohol use among females decreased from 1.97 days (SD = 3.15; n = 31) at intake to zero days at termination. Thirty day cigarette use among males decreased from 20 days (SD = 13.34; n = 139) at intake to 16.43 days (SD = 13.37; n = 67) at termination. Female 30 day cigarette use decreased from 25.39 days (SD = 11.70; n = 28) at intake to 18.50 days (SD = 13.90; n = 20) at termination. Male marijuana use decreased from 7.27 days (SD = 9.61; n = 196) at intake to 2.25 days (SD = 6.14; n = 100) at termination. Female marijuana use decreased from 6.41 days (SD = 9.02; n = 39) at intake to 0.37 days (SD = 1.61; n = 19) at termination. Paired t-tests revealed a statistically significant difference from intake to termination for alcohol and marijuana use among both males and females, and a significant difference for cigarette use among females.

Figure 8. Average Previous 30 Day Substance Use for Males – Franklin County

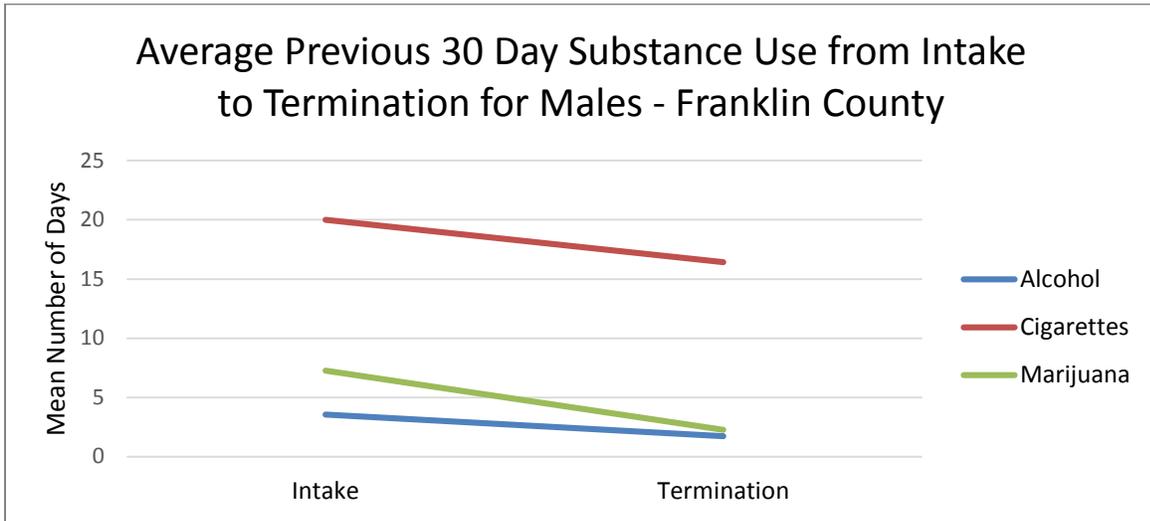
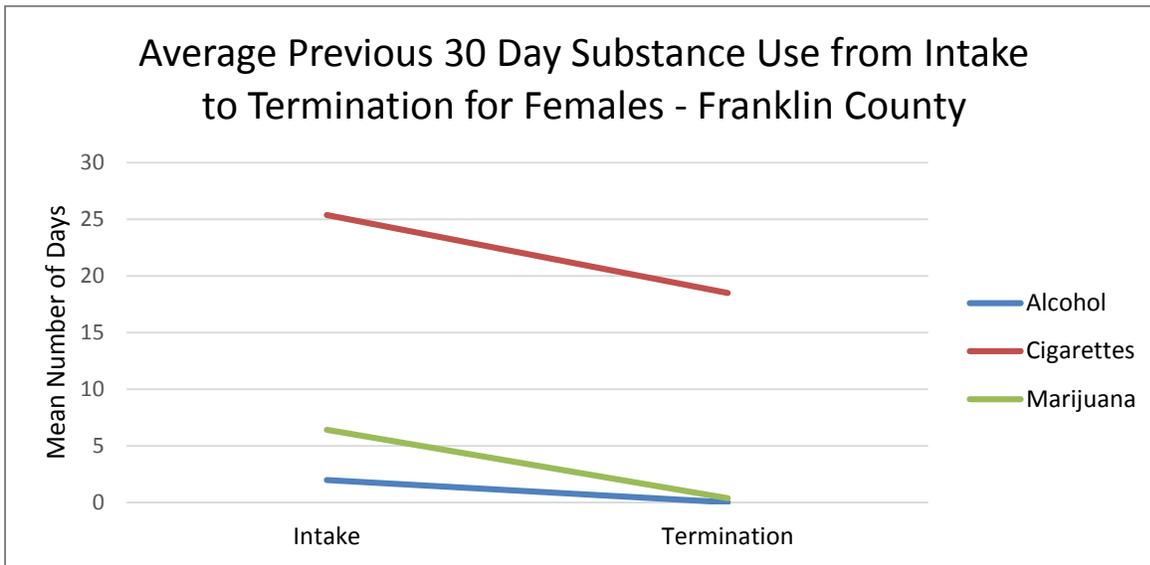


Figure 9. Average Previous 30 Day Substance Use for Females – Franklin County



OHIO SCALES AND SUBSTANCE USE

The Ohio Scales contain one Likert-scale item about the youth's problems with alcohol and drugs during the past 30 days. This question appears on all three versions of the Ohio Scales (Caregiver, Worker, and Youth). The responses range from zero to five, with zero indicating no problems at all with drugs or alcohol in the past 30 days and five indicating problems with drugs or alcohol all of the time. Scores on this item were examined at intake and termination for the three raters. All raters reported fewer problems with drugs or alcohol at termination from BHJJ (see Figure 10, Figure 11, and Figure 12). At intake 48.5% (n = 129) of caregivers and 30.9% (n = 141) of workers reported no problems with drugs or alcohol in the past 30 days while 68.6% (n = 83) of caregivers and 66.9% (n = 182) of workers reported no problems at termination. Similarly, 48.7% (n = 218) of youth reported no problems in the past 30 days with drugs or alcohol at intake while 76.5% (n = 199) of youth reported no problems at termination.

Figure 10. Problems with Drugs or Alcohol in the Past 30 Days for Franklin County Youth - Caregiver Ratings

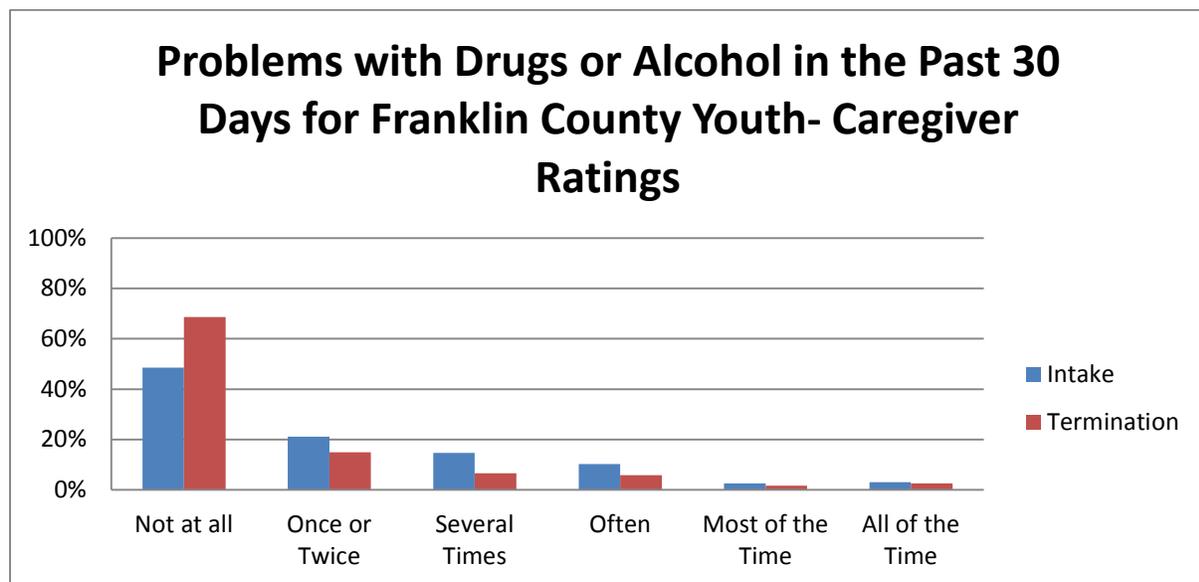


Figure 11. Problems with Drugs or Alcohol in the Past 30 Days for Franklin County Youth - Worker Ratings

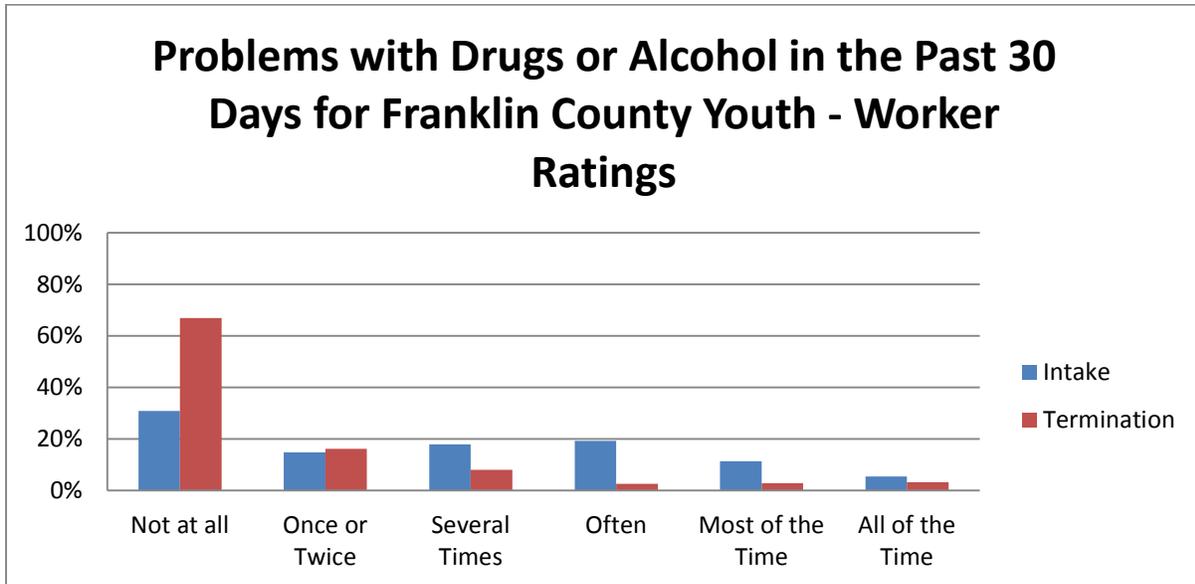
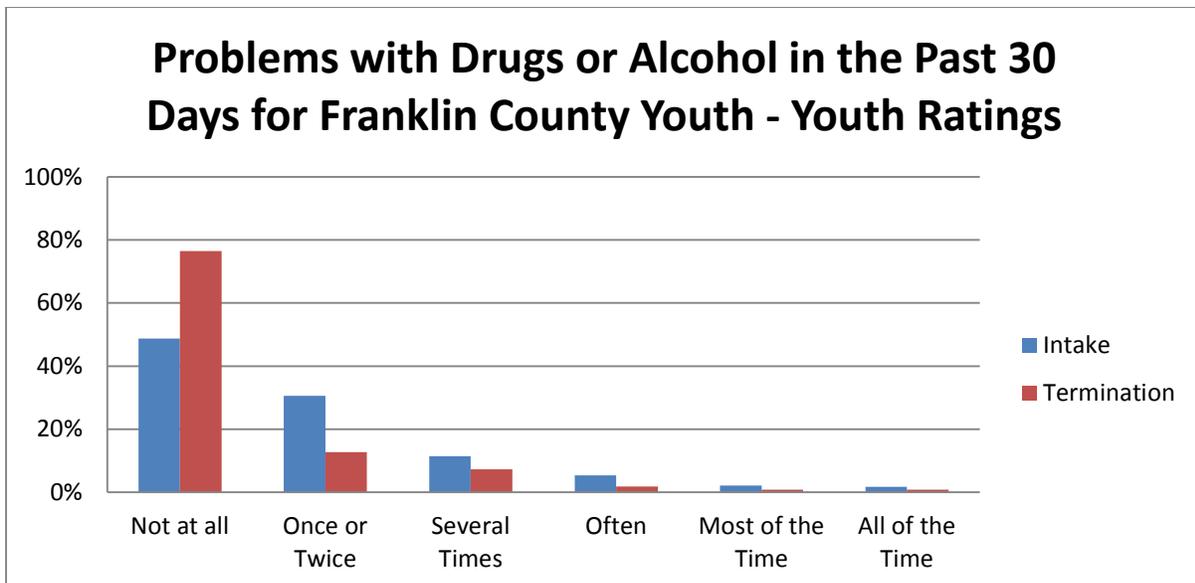


Figure 12. Problems with Drugs or Alcohol in the Past 30 Days for Franklin County Youth - Youth Ratings



TERMINATION INFORMATION

REASONS FOR TERMINATION

Upon termination of treatment from BHJJ, the case worker is asked to identify the reason for the youth's termination from the program. This information is typically focused on treatment outcomes and driven by local definitions of success, not necessarily whether the youth received new court charges or adjudications (recidivism), although youth may be terminated from the BHJJ program due to new involvement with the court. Typically, successful treatment completion is tied to attendance at meetings, progress in therapy, compliance with terms of the treatment plan, etc. County-specific definitions of successful termination are described in detail in the Project Descriptions section.

To date, there have been 349 youth terminated from the BHJJ program in Franklin County. **Over 68% (68.5%, n = 239) of the youth terminated from the BHJJ program were identified as successful treatment completers.** An additional 1.1% of youth (n = 4) were terminated from the program when the youth or family moved out of the county. Therefore, 69.6% (n = 243) of youth enrolled in BHJJ were terminated successfully or because the youth or family moved out of the county and were no longer able to receive BHJJ services. In Franklin County 2.9% of youth (n = 10) were withdrawn from the program and 10.6% (n = 37) were terminated from the program due to an out of home placement. Table 20 presents all of the reasons for termination from BHJJ.

In the latest evaluation period that began July 2013 and ended in June 2015, 63.6% (n = 35) of youth terminated successfully from the BHJJ program in Franklin County.

Table 20. Reasons for Termination from BHJJ – Franklin County

Termination Reason	All Youth	Youth Enrolled from July 2013 to June 2015
Successfully Completed Services	68.5% (n = 239)	63.6% (n = 35)
Client Did Not Return/Rejected Services	7.5% (n = 26)	5.5% (n = 3)
Out of Home Placement	10.6% (n = 37)	7.3% (n = 4)
Client/Family Moved	1.1% (n = 4)	0.0% (n = 0)
Client Withdrawn	2.9% (n = 10)	3.6% (n = 2)
Client AWOL	3.4% (n = 12)	7.3% (n = 4)
Client Incarcerated	2.0% (n = 7)	3.6% (n = 2)
Other	4.0% (n = 14)	9.1% (n = 5)

AVERAGE LENGTH OF STAY

The average length of stay for youth in the Franklin County BHJJ program was 248 days. For youth identified as completing treatment successfully, the average length of stay was 246 days and for youth identified as unsuccessful treatment completers, the average length of stay was 254 days. For youth enrolled since July 1, 2013, the average length of stay in BHJJ was 240 days.

RISK FOR OUT OF HOME PLACEMENT

At intake into and termination from the BHJJ program, workers were asked whether the youth was at risk for out of home placement. Upon entering the program, 74.5% of the youth (n = 309) in Franklin County were at risk for out of home placement. At termination, 18.0% (n = 57) of youth were at risk for out of home placement. Of those youth who successfully completed BHJJ treatment, 2.2% (n = 5) were at risk for out of home placement at termination while 60.3% (n = 47) of youth who terminated unsuccessfully from the program were at risk for out of home placement.

POLICE CONTACTS

With help from the caregiver and youth, the worker was asked to estimate the frequency of police contacts since the youth has been receiving mental health services through BHJJ. Workers reported that police contacts had been reduced for 72.0% (n = 188) of the youth and had stayed the same for 19.2% (n = 50) of the youth. Police contacts increased for 6.1% (n = 16) of the youth and the worker was unable to estimate for 2.7% (n = 7).

SATISFACTION WITH SERVICES

Upon completion of the BHJJ program, the caregiver was asked about their overall satisfaction with the BHJJ program (see Table 21). At termination from the BHJJ program, 88.9% (n = 64) of caregivers either strongly agreed or agreed that they were satisfied with the services their child received and 84.7% (n = 61) either strongly agreed or agreed that the services their child and/or family received were right for them. A strong majority (95.9%, n = 69) of caregivers either strongly agreed or agreed that staff treated them with respect and 91.6% (n = 65) strongly agreed that they were satisfied with the cultural and ethnic sensitivity of BHJJ staff.

Table 21. Satisfaction with Services – Franklin County

	Strongly Agree	Agree	Undecided	Disagree	Strongly Disagree
Overall I am satisfied with the services my child received	36.1%	52.8%	9.7%	1.4%	0.0%
The services my child and/or family received were right for us	34.7%	50.0%	13.9%	1.4%	0.0%
Staff treated me with respect	54.2%	41.7%	4.2%	0.0%	0.0%
Staff were sensitive to my cultural/ethnic background	43.7%	47.7%	7.0%	1.4%	0.0%

RECIDIVISM

METHODOLOGY

Court data were provided by the Franklin County Juvenile Court, and consisted of charges, adjudications, and commitments to ODYS (at any time after their BHJJ enrollment, including after termination from BHJJ). Data were divided into charges prior to enrollment, charges after enrollment, and charges after termination from BHJJ. We also present the data by treatment completion status (successful vs. unsuccessful). Technical or probation violations were not considered to be new charges and thus were not included in the analyses. Data specific to charges for misdemeanor and felony charges are presented in the following sections. Juvenile court history and recidivism information are presented at 3, 6, 12, and 18 month intervals.

Several criteria for inclusion in the analysis were considered based on the time period of interest. While all youth 18 years of age and under are included in the analyses prior to enrollment, not all youth are included in each assessment period after enrollment and after termination. Any charges for youth over 18 years of age would likely be filed in adult court, and therefore would not appear in juvenile court records. A youth over 18 at the time of termination may show no future juvenile court involvement; however the individual may have charges in the adult system. Because we did not have access to adult records, youth 18 years of age or older at termination were eliminated from all analyses that examined charges after termination. Also, youth who turned 18 years old during the measurement interval in question (3, 6, 12, 18 months after enrollment or termination) were eliminated from the analysis because we lacked a complete picture of their possible court involvement.

Enrollment and termination dates were also used to identify youth for the analyses. For example, when examining recidivism data three months after termination from BHJJ we chose to include only those youth who had been terminated from BHJJ for at least three months prior to the end of the data collection period, June 30, 2015. If the youth was terminated one month prior to the end of the data collection, that youth only had one month to recidivate. Therefore, the full extent of their recidivism is not known. For example, in order to be included in the three month after termination analyses, a youth had to have been 17.75 years old or younger at the time of termination and must have been terminated at least three months prior to the end of the data collection period. To be included in the 6 month analysis, youth had to have been 17.50 years old or younger at termination and have been terminated 6 months prior to June 30, 2015. The same criteria were applied to the intervals following enrollment in BHJJ. When examining new charges occurring within three months after intake, youth must be 17.75 years old or younger at the time of enrollment and the enrollment date must be at least three months prior to the end of the data collection period for inclusion in the analysis.

RESULTS

JUVENILE COURT INVOLVEMENT PRIOR TO INTAKE

In the 12 months prior to their BHJJ enrollment, 67.2% (n = 299) of the BHJJ youth had a misdemeanor charge, 70.8% (n = 315) had a felony charge, and 92.8% (n = 413) were adjudicated delinquent (see Table 22).

Previous juvenile court information is presented for youth based on BHJJ treatment completion status (successful vs. unsuccessful). In the 12 months prior to enrollment, 67.1% (n = 159) of successful completers and 72.7% (n = 72) of unsuccessful completers were charged with misdemeanors. A similar percentage of successful completers had a felony charge in the 12 months prior to intake (72.6%, n = 172) than unsuccessful completers (72.7%, n = 72).

Table 22. Charges Prior to BHJJ Enrollment – Franklin County

	Overall			Successful			Unsuccessful		
	Misdemeanors	Felonies	Adjudicated Delinquent	Misdemeanors	Felonies	Adjudicated Delinquent	Misdemeanors	Felonies	Adjudicated Delinquent
3 months	25.4% (n = 113)	22.7% (n = 101)	34.8% (n = 155)	21.9% (n = 52)	21.9% (n = 52)	33.3% (n = 79)	28.3% (n = 28)	23.2% (n = 23)	40.4% (n = 40)
6 months	51.2% (n = 228)	55.3% (n = 246)	75.3% (n = 335)	49.4% (n = 117)	56.1% (n = 133)	75.9% (n = 180)	56.6% (n = 56)	56.6% (n = 56)	78.8% (n = 78)
12 months	67.2% (n = 299)	70.8% (n = 315)	92.8% (n = 413)	67.1% (n = 159)	72.6% (n = 172)	93.2% (n = 221)	72.7% (n = 72)	72.7% (n = 72)	96.0% (n = 95)
18 months	73.0% (n = 325)	73.7% (n = 328)	95.3% (n = 424)	72.6% (n = 172)	74.7% (n = 177)	94.5% (n = 224)	76.8% (n = 76)	76.8% (n = 76)	99.9% (n = 98)

RECIDIVISM AFTER ENROLLMENT

We defined recidivism after enrollment as receiving a new charge or adjudication at 3, 6, 12, and 18 months after a youth’s BHJJ enrollment date. Once again even if a charge was eventually dismissed, it was included in the ‘Misdemeanors’ and ‘Felonies’ columns of the associated tables but would not be included in the calculations of delinquent adjudications.

In the 12 months after enrollment in BHJJ, 54.8% (n = 165) of youth were charged with at least one new misdemeanor and 20.3% (n = 61) were charged with at least one new felony. Forty eight percent (48.2%, n = 145) of the youth were adjudicated delinquent in the 12 months after their enrollment in BHJJ (see Table 23).

In the 12 months after enrollment in BHJJ 46.8% (n = 80) of successful completers were charged with at least one new misdemeanor, 18.7% (n = 32) were charged with at least one new felony, and 40.9% (n = 70) were adjudicated delinquent. Of the youth who completed unsuccessfully, 69.4% (n = 50) were charged with at least one new misdemeanor, 25.0% (n = 18) were charged with at least one new felony, and 61.1% (n = 44) were adjudicated delinquent in the 12 months after their enrollment in BHJJ.

Table 23. Charges after BHJJ Enrollment – Franklin County

	Overall			Successful			Unsuccessful		
	Misdemeanors	Felonies	Adjudicated Delinquent	Misdemeanors	Felonies	Adjudicated Delinquent	Misdemeanors	Felonies	Adjudicated Delinquent
3 months	18.2% (n = 75)	6.1% (n = 25)	16.9% (n = 70)	18.0% (n = 40)	5.4% (n = 12)	16.7% (n = 37)	20.2% (n = 19)	10.6% (n = 10)	22.1% (n = 21)
6 months	32.3% (n = 121)	12.5% (n = 47)	29.1% (n = 109)	30.1% (n = 63)	11.5% (n = 24)	28.2% (n = 59)	40.2% (n = 33)	20.7% (n = 17)	37.8% (n = 31)
12 months	54.8% (n = 165)	20.3% (n = 61)	48.2% (n = 145)	46.8% (n = 80)	18.7% (n = 32)	40.9% (n = 70)	69.4% (n = 50)	25.0% (n = 18)	61.1% (n = 44)
18 months	63.9% (n = 154)	26.6% (n = 64)	57.7% (n = 139)	58.0% (n = 80)	23.9% (n = 33)	50.7% (n = 70)	77.4% (n = 41)	35.8% (n = 19)	71.7% (n = 38)

RECIDIVISM AFTER TERMINATION

We defined recidivism after termination as receiving a new charge or adjudication any time after a youth’s BHJJ termination date. If a charge was eventually dismissed, it was still included in the ‘Misdemeanors’ and ‘Felonies’ column of the associated tables but would not be included in the calculations of delinquent adjudications.

In the 12 months after termination from BHJJ, 35.4% (n = 70) of youth were charged with at least one new misdemeanor, 16.2% (n = 32) were charged with at least one new felony, and 29.8% (n = 59) were adjudicated delinquent (see Table 24).

In the 12 months following their termination from BHJJ, 34.8% (n = 48) of successful completers were charged with at least one new misdemeanor, 13.8% (n = 19) were charged with at least one new felony, and 28.3% (n = 39) were adjudicated delinquent. Of the youth who completed unsuccessfully, 40.4% (n = 21) were charged with at least one new misdemeanor, 23.1% (n = 12) were charged with at least one new felony, and 36.5% (n = 19) were adjudicated delinquent in the 12 months after their termination from BHJJ.

Table 24. Charges after BHJJ Termination – Franklin County

	Overall			Successful			Unsuccessful		
	Misdemeanors	Felonies	Adjudicated Delinquent	Misdemeanors	Felonies	Adjudicated Delinquent	Misdemeanors	Felonies	Adjudicated Delinquent
3 months	12.8% (n = 31)	4.5% (n = 11)	11.9% (n = 29)	14.6% (n = 25)	4.1% (n = 7)	13.5% (n = 23)	9.0% (n = 6)	6.0% (n = 4)	9.0% (n = 6)
6 months	22.8% (n = 50)	9.6% (n = 21)	21.5% (n = 47)	23.1% (n = 36)	9.0% (n = 14)	21.8% (n = 34)	23.3% (n = 14)	11.7% (n = 7)	21.7% (n = 13)
12 months	35.4% (n = 70)	16.2% (n = 32)	29.8% (n = 59)	34.8% (n = 48)	13.8% (n = 19)	28.3% (n = 39)	40.4% (n = 21)	23.1% (n = 12)	36.5% (n = 19)
18 months	43.2% (n = 54)	18.4% (n = 23)	39.2% (n = 49)	41.6% (n = 37)	18.0% (n = 16)	39.3% (n = 35)	44.1% (n = 15)	20.6% (n = 7)	41.2% (n = 14)

FELONY OFFENDERS AND ODYS COMMITMENTS

We examined data for those youth who committed felony offenses in the 12 months prior to their BHJJ enrollment to determine if they had new felony charges after their BHJJ termination. A total of 138 felony offenders remained in the analysis after the data were restricted to youth 17 years old or younger, who had one full year to recidivate and for whom we had both recidivism and termination data. Of the 138 youth, 14.5% (n = 20) were charged with a new felony in the 12 months after their termination from BHJJ.

Twenty nine of the 445 BHJJ youth (6.5%) from Franklin County for whom we had recidivism data were committed to an ODYS facility at any time following their enrollment.

SUCCESS STORY

Youth A is currently involved in Franklin County Juvenile Court for a Burglary F2. The youth had been with his co-defendant and unlawfully entered a residence with the intention of removing property. Eventually, A was placed on Felony Probation. From the start of Probation, A has displayed no resistance to the Terms & Conditions of Probation. He attends school every day and puts forth a great deal of effort. He is respectful of staff and other peers. A is linked with counseling through Directions for Youth and Families and has set appropriate goals to work towards. He is making excellent progress and should be done with counseling fairly soon.

Throughout his life, A has been exposed to negativity and violence, particularly in the home. His mother and father separated, and there is very little contact with his biological father. However, mother had entered into a few other relationships but these relationships typically involved domestic violence. This has caused overwhelming feelings for A such as lack of trust, anger, depression, and anxiety. There are times where he fears for the safety of his family.

We are truly very proud of all the work he has done. He continues to amaze us each day and is dependable and a joy to work with. We are able to see A in his daily environments – school and home. He looks forward to our visits and usually questions when one of us is not present with the other. We keep in constant contact regarding A – sending text messages, emails, phone calls, and face to face check in's.

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