



North Carolina Treatment Outcomes and Program Performance  
System

**Annual Report on Special Populations: Assessments Received  
July 1, 2004 thru June 30, 2005**

**Maternal Pregnant Programs**

**Sponsored by**

Community Policy Management Section of the North Carolina Division of Mental Health,  
Developmental Disabilities, and Substance Abuse Services through funding provided in the  
Substance Abuse Prevention and Treatment Block Grant (SAPTBG) from the Center for Substance  
Abuse Treatment (CSAT) of the Substance Abuse and Mental Health Services Administration  
(SAMHSA).

**Division Contacts**

Flo Stein, Community Policy Management Section Chief: (919) 733-4670, Flo.Stein@ncmail.net  
Spencer Clark, Director of Operations and Clinical Services: (919) 733-4670, Spencer.Clark@ncmail.net  
Shealy Thompson, Quality Management Team Leader: (919) 733-0696, Shealy.Thompson@ncmail.net

**Report produced by**

Institute for Community-Based Research  
National Development & Research Institutes, Inc.(NDRI)

**NDRI Contacts**

Marge Cawley, Project Director: (919)863-4600 x223 cawley@ndri-nc.org  
Gail Craddock, Senior Research Analyst: (919) 863-4600 x226 craddock@ndri-nc.org

**Data Collection by**

Center for Urban Affairs and Community Services (CUACS)  
NC State University

**CUACS Contacts**

Mindy McNeely, Project Director: (919)515-1303 mindy\_mcneely@ncsu.edu

<b>Intro</b>	<b>Introduction to NC-TOPPS Report</b>  Purpose of report, numbers of cases included in this report, and general information on interpreting data and graphics in the report.
<b>Page 1</b>	<b>Initial Assessments: Demographics and Client Characteristics</b>  This page provides an overall description of the gender, age, ethnicity, educational background and marital status of clients for whom Initial Assessments were received from July 1, 2004 thru June 30, 2005. In addition, primary substance problem, prior treatment enrollment, referral source and treatment population are shown.
<b>Page 2</b>	<b>Initial Assessments: Pre-treatment Behaviors, Indicators, and Ratings</b>  This page continues to show information on the same clients described on Page 1. Health insurance, correctional supervision, referral sources, living situation, child and pregnancy issues, DSS involvement, and service needs are detailed.
<b>Page 3</b>	<b>Initial Assessments: Pre-treatment Behaviors, Indicators, and Ratings</b>  Page 3 continues to show information on Initial Assessments. Client responses to questions regarding their substance use, participation in the labor force, ratings of family life and health are shown. In addition, average GAF scores from client medical records are reported.
<b>Page 4</b>	<b>3-Month Update Assessments Section I: Service Needs, Services Rendered and Drug Test</b>  This page reports on clients for whom a 3-month Update Assessment was received from July 1, 2004 to June 30, 2005. These clients may overlap somewhat with the clients who had an Initial Assessment during this period, but also includes any 3-Month Assessments received during the fiscal year and include clients whose Initial Assessment was done in the previous fiscal year. Page 4 shows Update Assessment items that are completed by the clinician from medical records (Section I)
<b>Page 5</b>	<b>3-Month Update Assessments Section II: Client Behaviors</b>  This page reports on clients for whom a 3-month Update Assessment was received from July 1, 2004 to June 30, 2005 and includes items from Section II of the interview. Information can be obtained from direct client interview in-person or by phone or from the client's clinical record, if the client is not available for an interview.
<b>Page 6</b>	<b>3-Month Update Assessments Section III: In-Person Interview Items</b>  This page reports on clients for whom a 3-month Update Assessment was received from July 1, 2004 to June 30, 2005 and includes items from Section III of the interview. Information can be obtained from direct client interview in-person or by phone or from the client's clinical record, if the client is not available for an interview.
<b>Page 7</b>	<b>Behaviors, Indicators, and GAF Scores: Initial Compared to 3-Months</b>  Page 7 compares the behaviors of a group of clients before and during treatment. Information on before treatment behaviors was obtained from the Initial Assessment conducted at the beginning of treatment while information on during treatment behavior was obtained at the 3-month Update Assessment. Unduplicated 3-month Update Assessments with an in-person interview for whom a matching Initial Assessment could be identified (going back the past 2 State fiscal years) are included. This is a change from the methodology used in past year annual reports.
<b>Page 8 (optional)</b>	<b>Behaviors, Indicators, and GAF Scores: Initial Compared to Discharge Assessment</b>  Page 8 compares the behaviors of a group of clients before and during treatment. Information on before treatment behaviors was obtained from the Initial Assessment conducted at the beginning of treatment while information on during treatment behavior was obtained on the Discharge Update Assessment. Unduplicated Discharge Assessments for clients who "completed treatment" with an in-person interview for whom a matching Initial Assessment could be identified (going back the past 2 State fiscal years) are included. All discharges completing treatment in the current fiscal year are candidates for inclusion on this page.

**Purpose**

This feedback report is for use of the NC Community Policy Management Section and Area and Specialty programs to assist in monitoring, comparing, and managing their substance abuse services. The report provides both cross sectional and longitudinal data to describe clients at key points in the treatment episode. The table below indicates the numbers of assessments received during this fiscal year on which this report is based.

**Number of Maternal Pregnant Assessments Received, by Assessment Type and In-Person Status**  
(note in-person status for Update Assessments refers to Section III)

<b>Type of Assessment</b>	<b>Number</b>	<b>Number with In-person Interviews</b>	<b>Percent with In-person Interviews</b>
Initial Assessments	935	935	100%
3-Month Update Assessments	368	176	48%
6-Month Update Assessments	184	84	46%
12-Month & Other Annual Update Assessments	75	42	56%
Discharge or Transfer Assessments:			
-Completed Treatment	114	30	26%
-Transferred to another program	81	19	23%
-Treatment non-completion(a)	502	27	5%

(a) Includes those who did not return as scheduled, discharged at program initiative, refused treatment, were incarcerated, institutionalized, or died.

**General Information on Interpreting Tables**

- Types of Statistics**
  - ▶ A count shows the actual number (often designated by the letter “n” ) of clients.
  - ▶ A percentage is the number of clients with a characteristic or behavior divided by all the clients in the group of interest multiplied by 100. Percentages will be designated with a % sign next to the number.
  - ▶ An average is the sum of a set of numbers divided by the number of numbers in the set. When a number in a cell is an average, the word average will appear in the row descriptor.
  - ▶ A median is the middle number in a set of numbers, arranged from lowest to highest. For example, the median for the following numbers: 9, 12, 12, 15, 17, 20, **22**, 23, 25, 28, 31, 35, 62 is the bolded number, 22. Medians are important measures of central tendency, especially when a mean may be skewed by a very high or a very low value. When a number in a cell is a median, the word median will appear in the row descriptor.
  
- Missing Data**

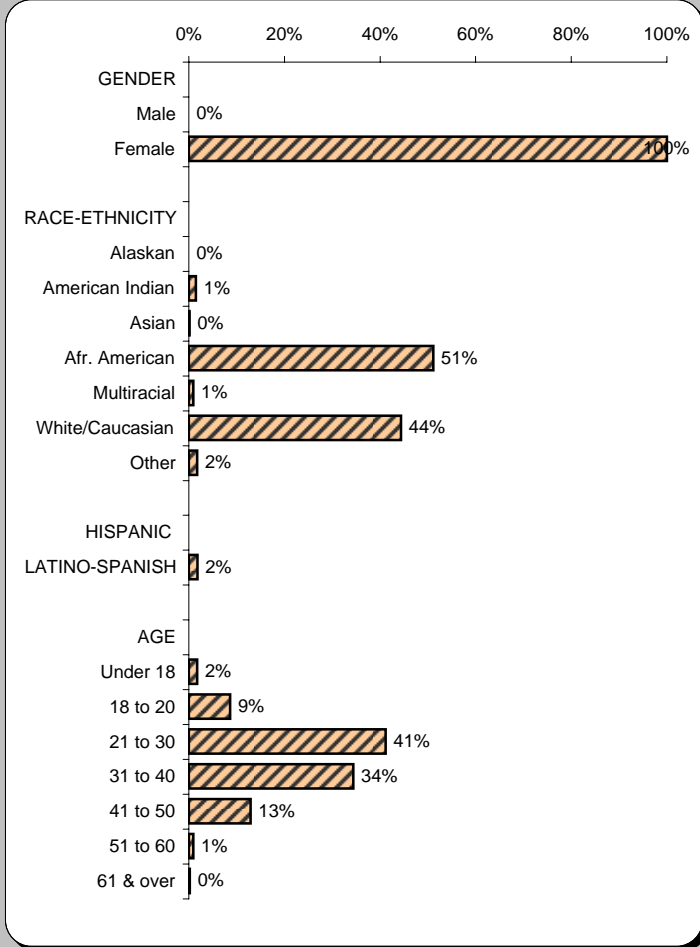
For many of the NC-TOPPS forms received, a particular item or question may have been left blank. In calculating the means, medians, and percentages in cells of questionnaire items, this missing data is excluded from the calculation. For example, program X may have turned in 50 NC-TOPPS Initial Assessment forms, but in 2 of the forms, gender was left blank. When the percent of males is calculated, the 25 males are shown as 52% (25/48 \* 100).
  
- Multiple Response**

“Multiple response” indicates a “mark all that apply” type question in which more than one response to a question is allowed. The total of responses may add to greater than 100%. Examples are health insurance or referral source. This is in contrast to items such as gender or age, where only a single response is allowed and responses total to 100%.
  
- Urinalysis Tests**

There are differences across facilities in the way in which urinalyses are conducted. The issues include: (1) completely random or for "cause"; (2) observed or non-observed; and (3) frequency of tests. Based on the way the data is currently collected, it is not possible to resolve all of the differences. However, some features of the report help clarify some of these differences. The percentage of cases with urine tests and the average number of tests done per client are shown to help contextualize the interpretation of the subsequent urinalysis results.

  - The average number of urine tests is calculated based on those clients who had at least one test done.
  - The percent of clients tested that were positive for specific substances is based only on those clients who were tested.

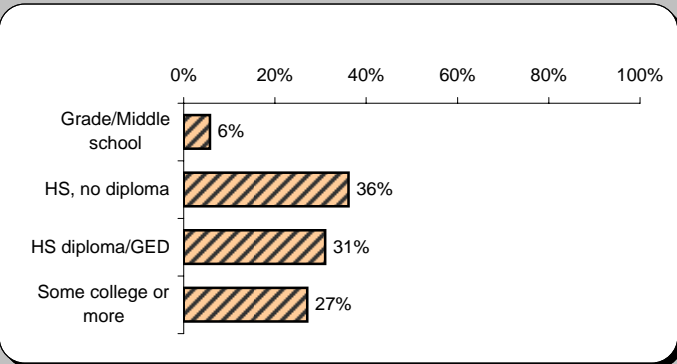
**1-1: Demographics**



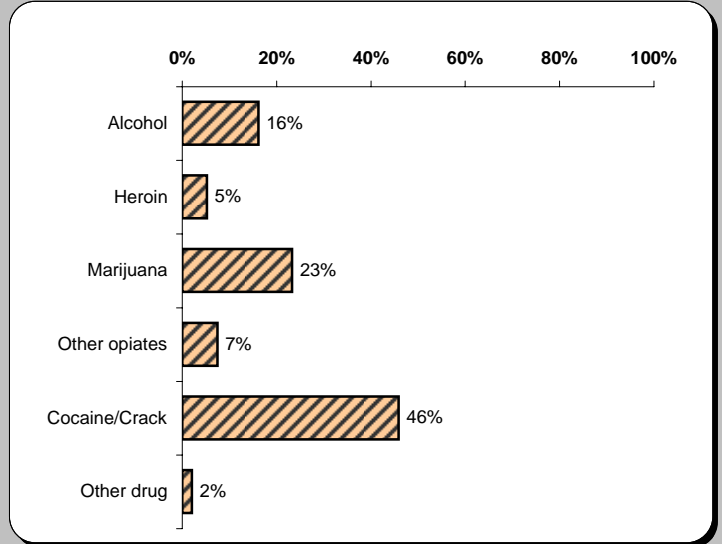
**1-2: Marital Status**

Marital Status	Maternal Pregnant
Never married	57%
Married or living as	12%
Divorced/Widowed/Separated	31%

**1-3: Highest Educational Achievement**



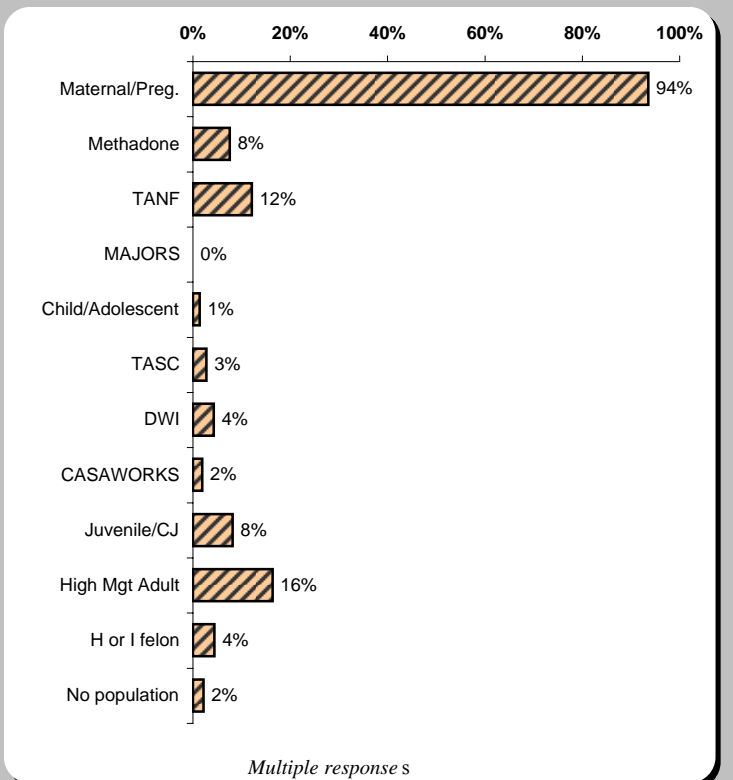
**1-4: Primary Substance Problem**



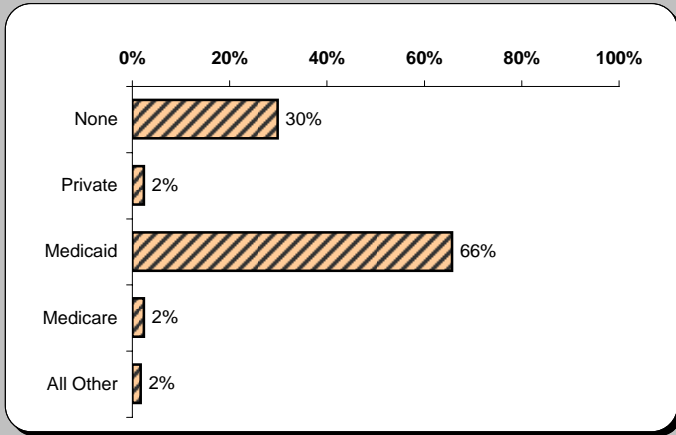
**1-5: Prior Enrollment in Substance Abuse Treatment**

22% of clients were enrolled in substance abuse treatment (not including detox) in the 3 months prior to the current admission. Overall, 49% had prior outpatient substance abuse treatment during their lifetime.

**1-6: Special Populations**



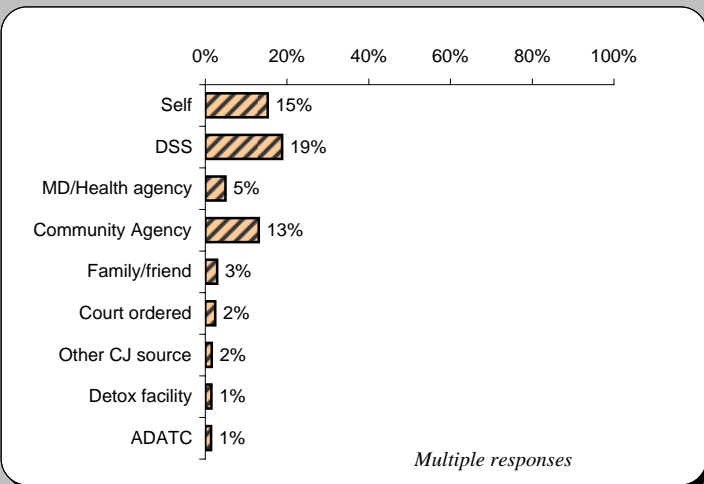
**2-1: Health Insurance**



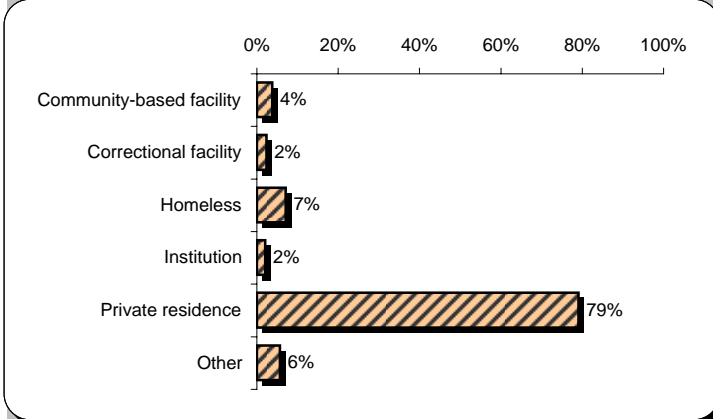
**2-2: Correctional Supervision**

22% of clients are under correctional supervision at admission.

**2-3: Referral Sources**



**2-4: Where Lived**



**2-5: Children Under 18**

89% of Maternal Pregnant clients have children under age 18.

**Of those with children...**

Have custody of all children	60%
Have custody of some children	14%
Have custody of none of children	26%

**2-6: Pregnancy Status**

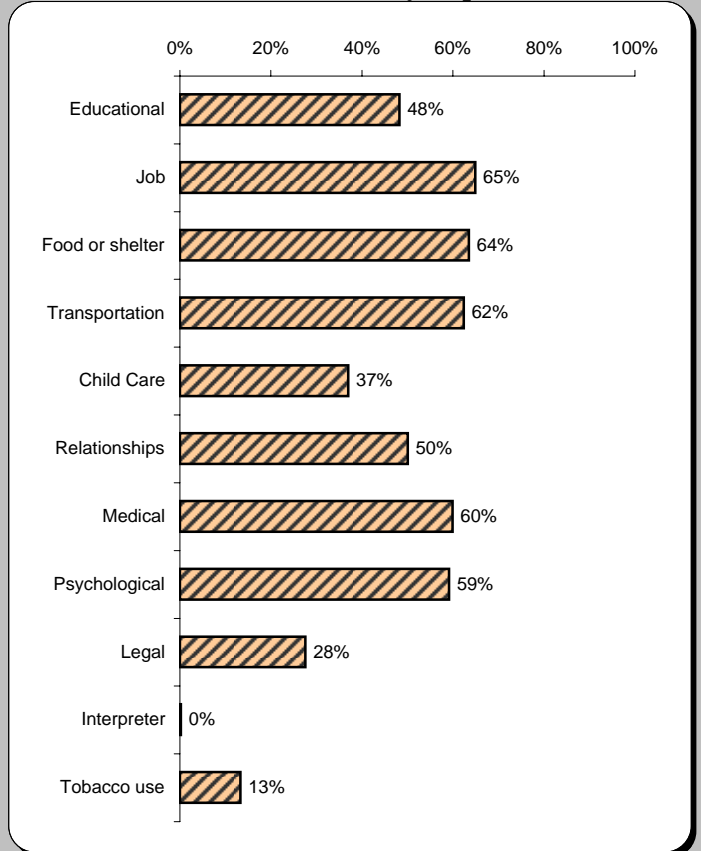
Number currently pregnant	246
Number uncertain about pregnancy status	17
Number in first trimester	42
Number in second trimester	123
Number in third trimester	74

Note: Numbers may not add, due to missing data.

**2-7: DSS Involvement**

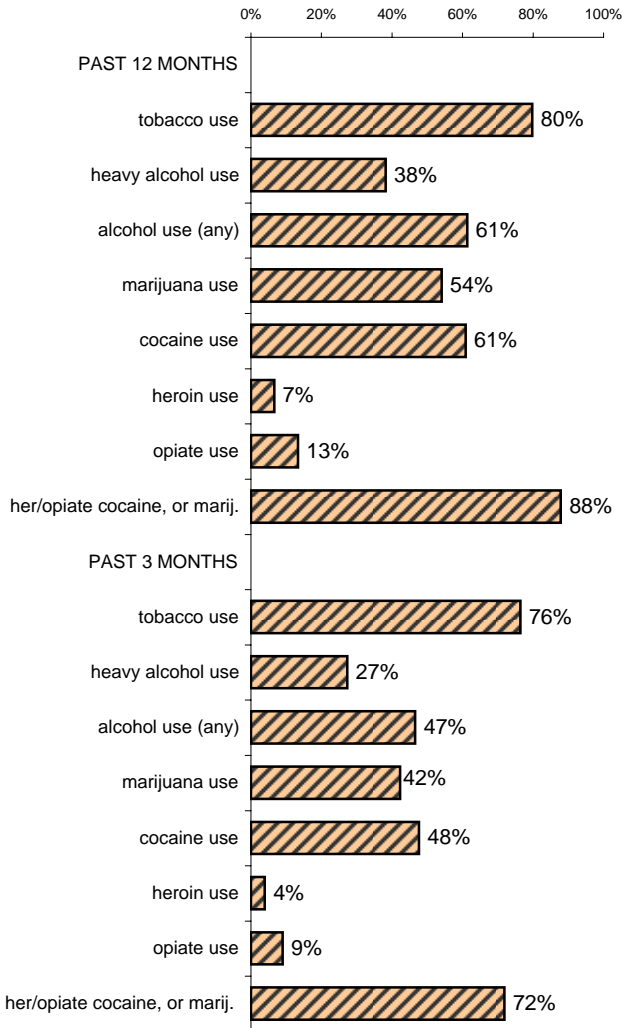
Investigated by DSS for child abuse or neglect	33%
Admission to treatment required by DSS	25%

**2-8: Service Needs Rated "Very Important"**



### 3-1: Self-Report Substance Use

Bars show % with any use



### 3-2: Injection Drug Use

12% of Maternal Pregnant clients report that they have injected drugs.

### 3-3: 90-Day Abstinence

Clients were asked how long they have been abstinent at this time. 20% of Maternal Pregnant clients reported abstinence for at least the past 90 days.

### 3-4: General Assessment of Functioning (GAF)

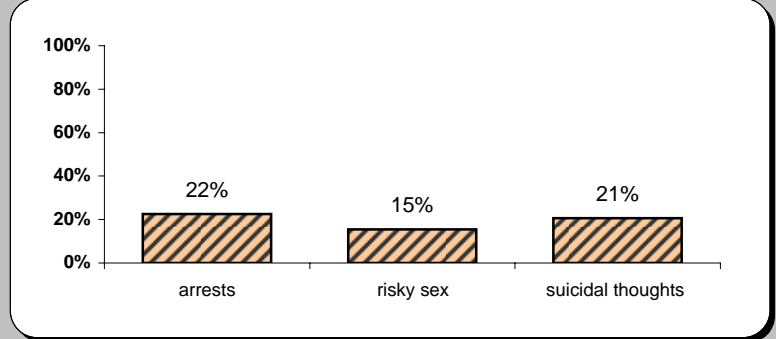
GAF scores were reported for 98% of Maternal Pregnant clients. The average score was 46.6 and the median score was 48.

### 3-5: Employment, Past 3 Months

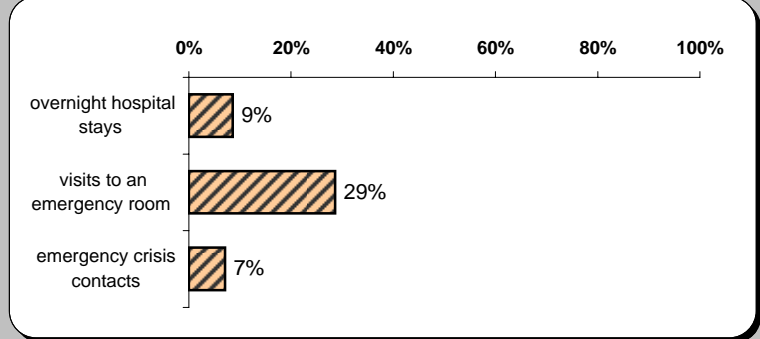
61% of Maternal Pregnant Programs clients are in the labor force meaning that they are working, or unemployed and looking for work.

Of those in the labor force	Maternal Pregnant
Percent employed full-time	16%
Percent employed part-time	17%
Percent unemployed (seeking work)	67%

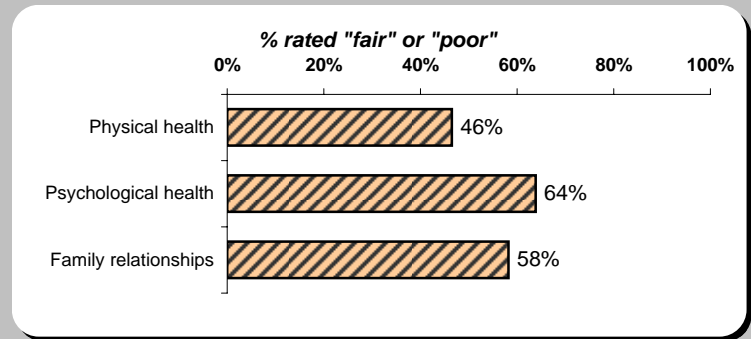
### 3-6: Problem Indicators, Percent with Problem in Past 3 Months



### 3-7: Health Care Utilization: Percent Using Services in the Past 3 Months



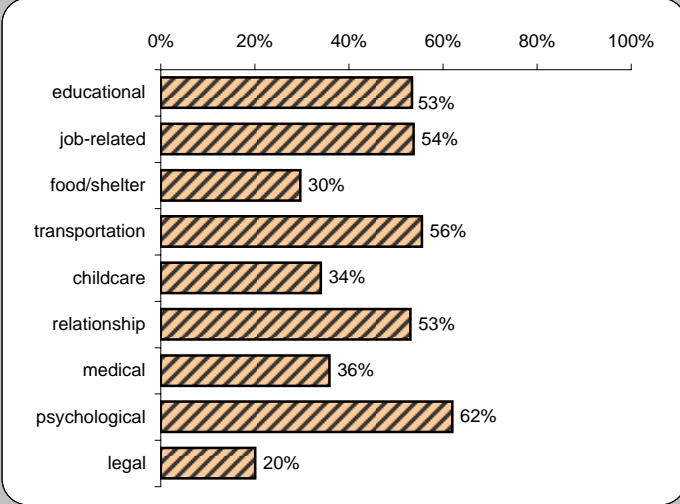
### 3-8: Client Ratings on Quality of Life Indicators



**4-1: Clients Reported on Page 4 & Page 5**

Client Characteristics	
Male	0%
African American	53%
White/Caucasian	42%
30 years and younger	50%

**4-2: Percent who Still Need Services, by Service Area**



Note: Services may have been delivered in these areas, but are still needed.

**4-3: HIV, TB, & HIV Screening & Referral**

Percent screened	36%
Percent who still need to be screened	7%
Percent referred for treatment	4%

**4-4: Treatment Participation - Group Sessions**

Group sessions were scheduled for 72% of Maternal Pregnant clients. Among those scheduled for sessions, the AVERAGE number of attended was 24 sessions and the MEDIAN number attended was 14.

**4-5: Treatment Participation - Individual Sessions**

Individual sessions were scheduled for 50% of Maternal Pregnant clients. Among those scheduled for sessions, the AVERAGE number of attended for was 4.2, and the MEDIAN number sessions attended was 2.

**4-6: Treatment Participation - Residential**

Residential treatment was attended by 13.6% of Maternal Pregnant clients. Those receiving residential treatment were in treatment an average of 52 days.

**4-7: Family Involvement**

Percent with face to face contact of client's family with program staff.	18%
--	-----

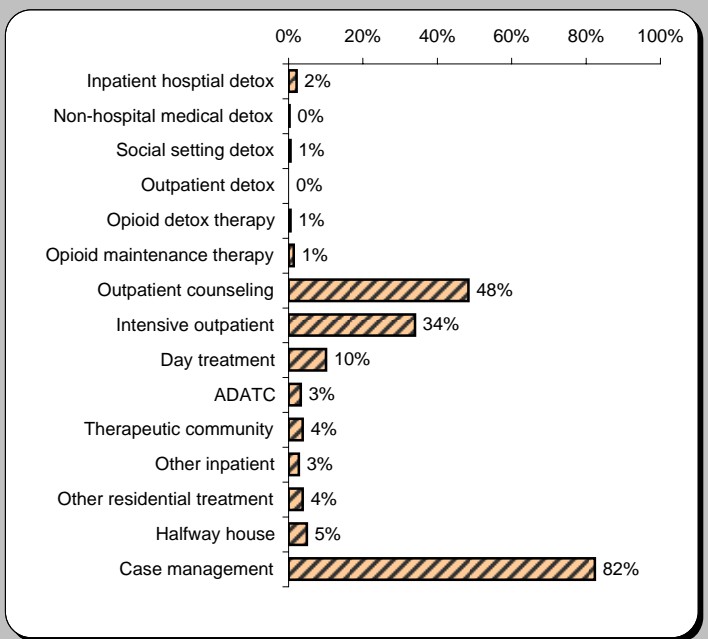
**4-8: Methadone Dose**

6 Maternal Pregnant clients were receiving methadone. The average dose for these clients was 58.3 mg.

**4-9: General Assessment of Functioning (GAF)**

A GAF score was reported for 72% of Maternal Pregnant clients. The average GAF score was 49.4.

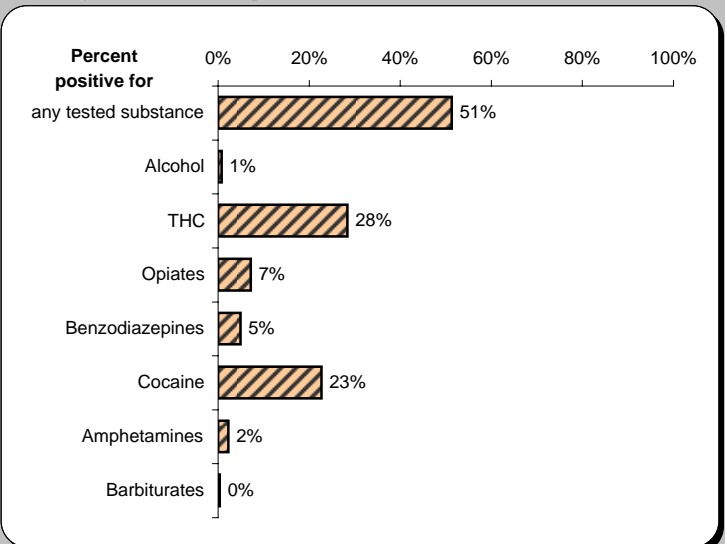
**4-10: Types of Treatment Rendered**



Multiple response

**4-10: Drug Test Results**

# of cases with urine tests	265
% of cases with urine tests	72%
Average # of urine tests per client tested	7.1



### 5-1: Item Source

Whether questions asked on this page were responded to by the client or by the clinician from the clinical records. There is a possibility of multiple response so items may total to greater than 100%.

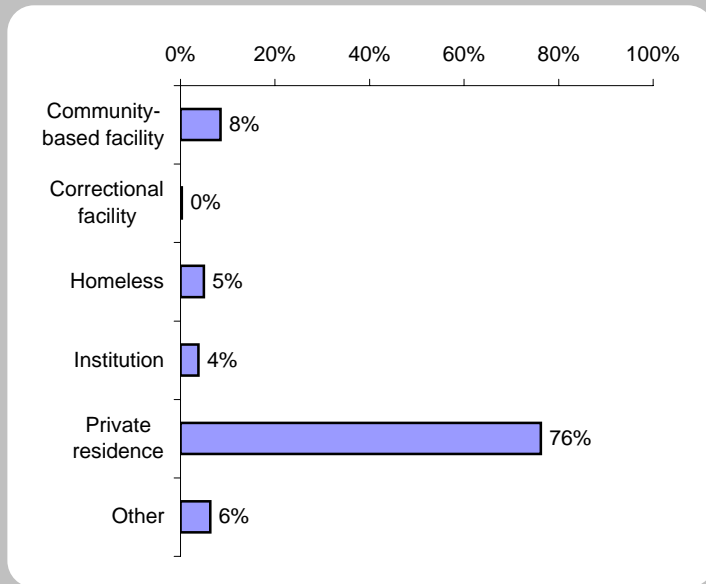
In-person interview	40%
Telephone interview	5%
Clinical records/notes	63%

### 5-2: Employment, Past Month

60% of Maternal Pregnant clients are in the labor force meaning that they are working, or unemployed and seeking work.

Of those in labor force	Maternal Pregnant
Percent employed full-time	12%
Percent employed part-time	20%
Percent unemployed	68%

### 5-3: Where lived most of time?



### 5-4: Children Under 18 & Custody Issues

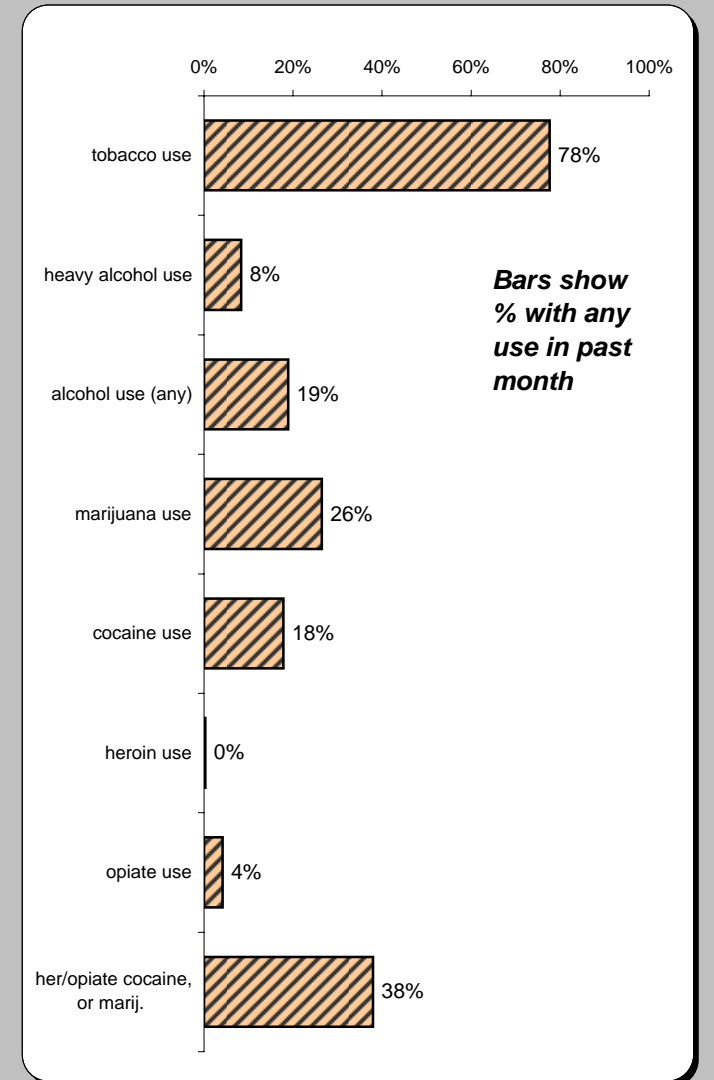
92% of Maternal Pregnant clients have children under the age of 18.

Number of clients who...	Number
Have children under 18	335
Gained custody of a child(ren)	5
Lost custody of a child(ren)	15
Started seeking custody	12
Stopped seeking custody	3
Continued seeking custody	70
Had a new baby who was removed from legal custody	7

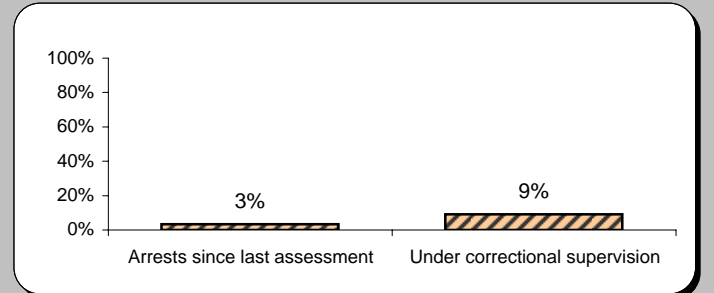
### 5-5: Numbers of Births

Number of births, since last assessment	52
---	----

### 5-6: Substance Use



### 5-7: Correctional Supervision and Arrests Since Last Assessment



**6-1: Clients Reported on this Page**

Client Characteristics	Maternal Pregnant
Male	0%
African American	57%
White/Caucasian	40%
30 years and younger	54%

**6-2: Pregnancy**

Number currently pregnant	36
Number uncertain about pregnancy status	0

**6-3: Support and Motivation**

Item	
Have sponsor	29%
Use faith, prayer, religion, or spiritual involvement regularly	90%
Attend self-help/support group weekly	74%

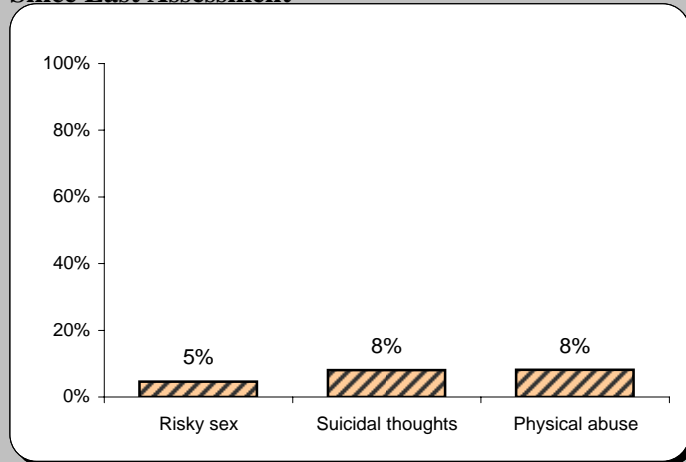
**6-4: 90-Day Abstinence**

Clients were asked how long they had been abstinent at this time. 53% of Maternal Pregnant clients reported abstinence for the past 90 days.

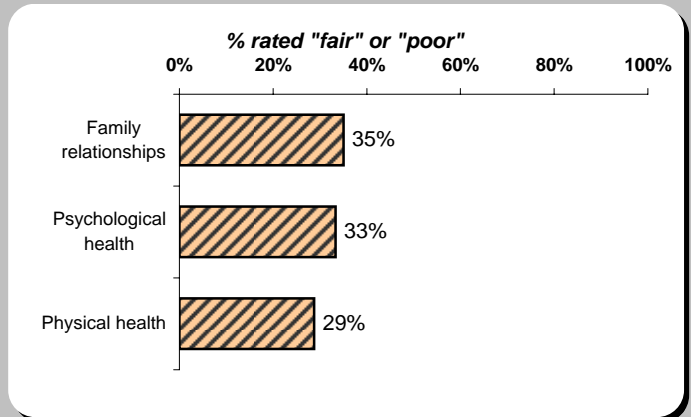
**6-5: Injection Drug Use, Since Last Assessment**

2% of Maternal Pregnant clients reported that they have injected drugs since the last assessment.

**6-6: Problem Indicators, Percent with Problem Since Last Assessment**

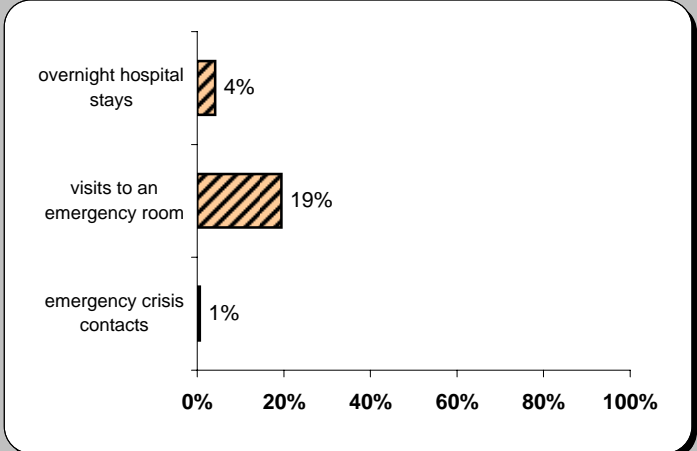


**6-7: Client Ratings on Quality of Life Indicators**

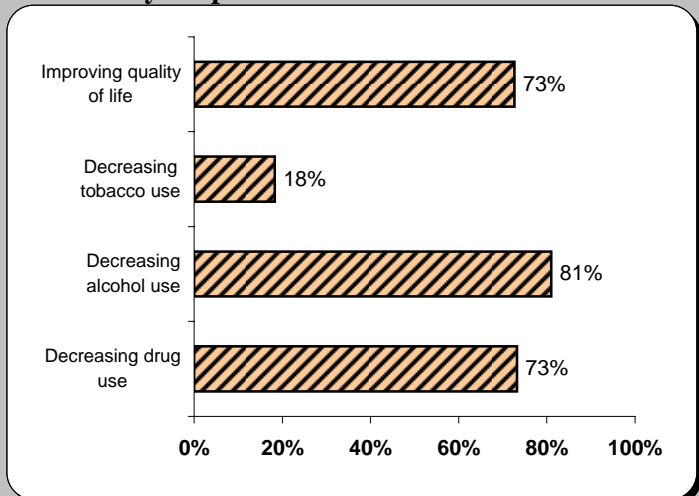


**6-8: Health Care Utilization: Percent**

**Using Services Since Last Assessment**



**6-9: Percent of Clients Indicating Program Services were "Very Helpful"**



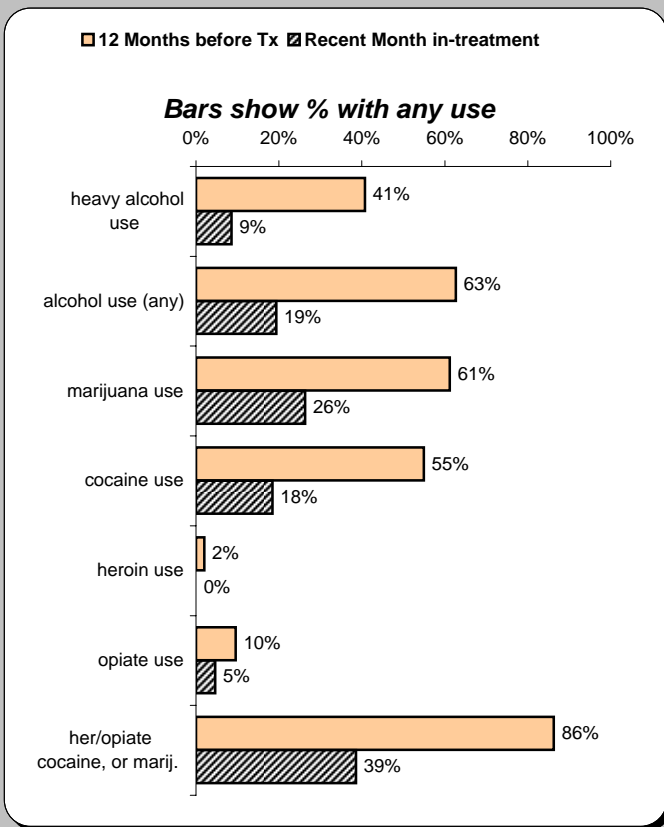
### Interpreting Matched Record Data

Charts and tables on this page compare information from a subgroup of clients on pages 3 and 4 who have both an Initial and a 3-month Update Assessment. Assessment responses to similar items at different time frames are compared. Initial Assessment time frames refer to the past 12 months or past 3 months before the interview (solid or orange bar) while Update Assessment time frames (diagonal striped bar) refer to "since the last assessment" or the most recent month prior to the assessment.

#### 7-1: Demographics

Measure	(n=312)
Male	1%
African American	53%
White/Caucasian	44%
30 years and younger	50%

#### 7-2: Substance Use Before & During Treatment



#### 7-3: Injection Drug Use and Abstinence

Measure	Before	During
Injection use*	10%	2%
90 days or more abstinence	28%	54%

\*Ever injected before initial is compared to since last assessment.

#### 7-4: Employment

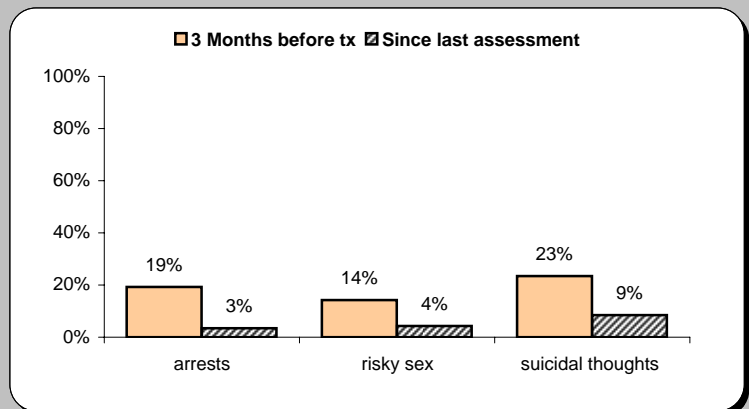
Employment Indicator	Before Initial	Month in-treatment
In Labor Force	62.1% (n=192)	62.5% (n=193)
Employed full-time*	12% (n=23)	12.4% (n=24)
Employed part-time*	14.6% (n=28)	17.1% (n=33)
Unemployed*	73.4% (n=141)	70.5% (n=136)

\* of those in the labor force. Missing data are excluded from percentage calculations.

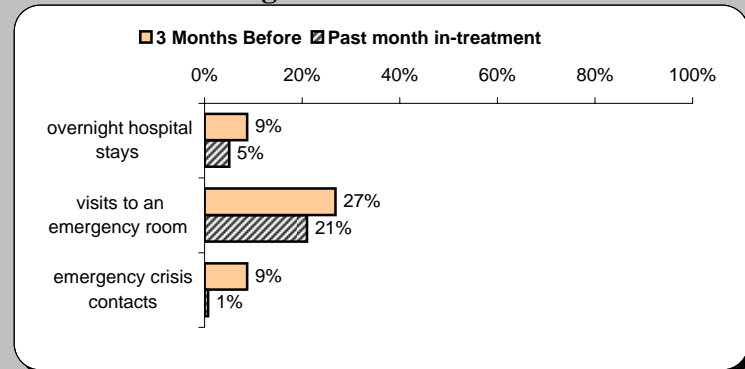
#### 7-5: GAF Score at Initial and Update

Measure	Initial	Update
% with GAF scores	99%	71%
Mean	48.7	49.6
Median	50	50

#### 7-6: Problem Indicators



#### 7-7: Percent Using Health Care Services



#### 7-8: Average Days Between Assessments

The average number of days between the Initial and Update Assessment was 95 days.

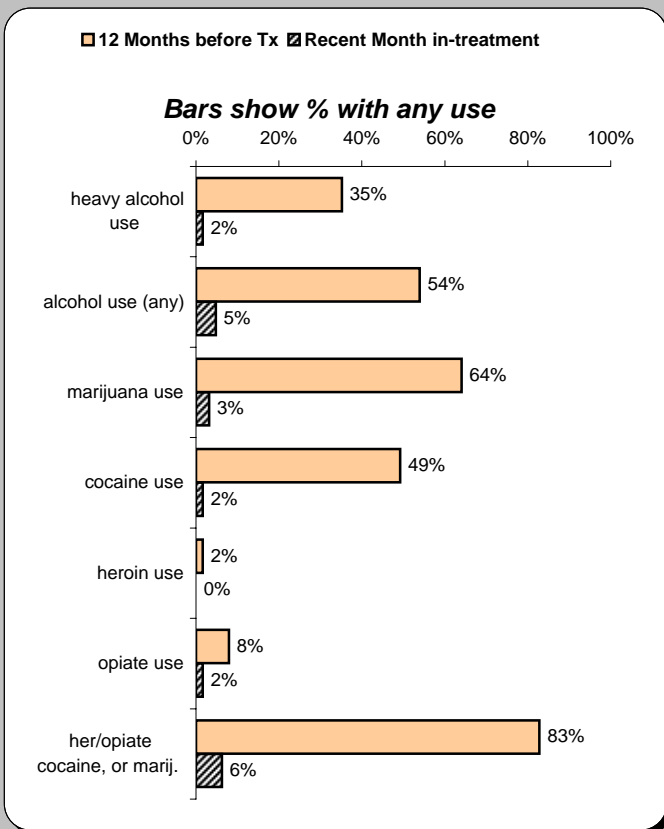
### Interpreting Matched Record Data

Charts and tables on this page compare information from a group of clients who have both an Initial and a Discharge with a discharge status of "completed treatment." This group of clients may not be representative of all such discharges since the in-person interview rate is generally low. Initial Assessment time frames refer to behaviors in the 12 months or 3 months before the interview while Update Assessment time frames may refer to "since the last assessment" or the month prior to the interview.

#### 8-1: Demographics

Measure	(n=71)
Male	0%
African American	65%
White/Caucasian	28%
30 years and younger	48%

#### 8-2: Substance Use Before & During Treatment



#### 8-3: Injection Drug Use and Abstinence

Measure	Before	During
Injection use*	13%	0%
90 days or more abstinence	26%	83%

\*Ever injected before initial is compared to since last assessment.

#### 8-4: Employment

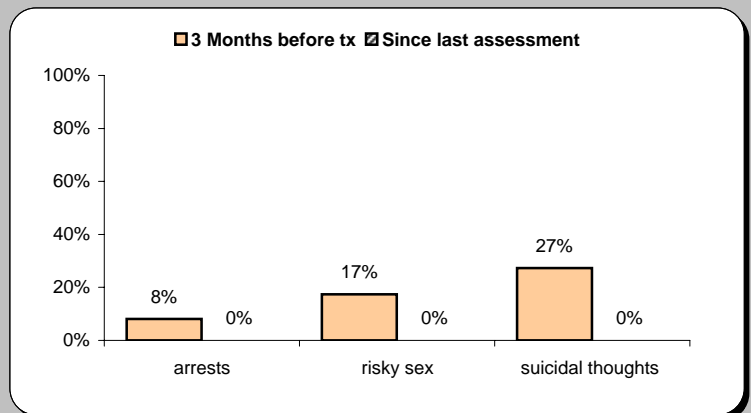
Employment Indicator	3 Months Before Initial	Last Month of trtmnt
In Labor Force	72.9% (n=51)	67.1% (n=47)
Employed full-time*	9.8% (n=5)	21.3% (n=10)
Employed part-time*	19.6% (n=10)	29.8% (n=14)
Unemployed*	70.6% (n=36)	48.9% (n=23)

\* of those in the labor force.

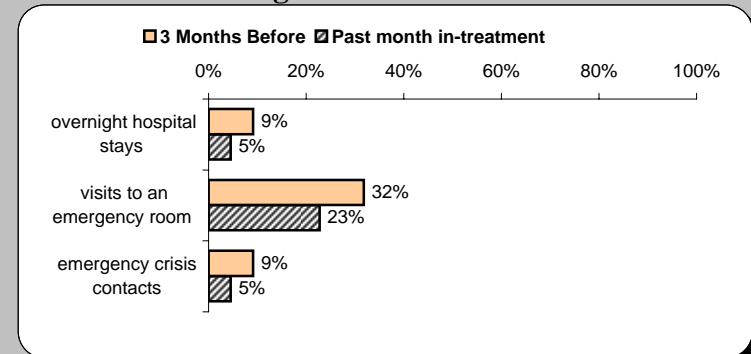
#### 8-5: GAF Score at Initial and Update

Measure	Initial	Update
% with GAF scores	94%	93%
Mean	50.5	50.8
Median	50	50

#### 8-6: Problem Indicators



#### 8-7: Percent Using Health Care Services



#### 8-8: Average Days Between Assessments

The average number of days between the Initial and Discharge Update Assessment was 192 days.