Investigating the Relationship Between Services and Outcomes in a Program for Transition-Aged Youth

Nancy Koroloff
Portland State University



Mike Pullmann Vanderbilt University



Lyn Gordon

Department of Community Services,
Clark County, Washington

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Options Program

- Partnership for Youth Transition Program in Vancouver, Washington
- Four years of funding from Center for Mental Health Services
- Transition specialists work intensively with small group of youth
- Specialized employment and housing support
- Strong youth voice in designing and running program

Databases and Measures

- CSM (Creative Socio-Metrics) Management Information System
 - Tracks services by type and hours per youth per day
- ETO (Effort-to-Outcomes)
 - Completed by the Transition Specialist at intake and every quarter
 - Asked questions about how MH problems interfered with the youth's functioning
 - Asked about school enrollment, graduation
- · Juvenile court data
 - Juvenile lifetime arrests

Engagement and retention

Category	n	%
Did not engage	26	20%
Engaged but did not enter ETO	18	14%
Entered ETO	84	66%
Total referred and contacted	128	100%

Retention

(n=84)

Data wave completed	n	% retained
3 month	72	86%
6 month	63	75%
9 month	51	61%
12 month	41	49%
15 month	32	28%

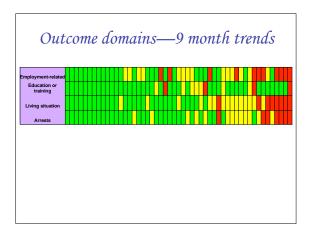
Descriptives

(n=51)

- Average age = 16 years
- 59% male
- 92% white
- 61% living with family
- 71% enrolled in high school or GED
- 8% employed at intake
- 39% worked in past 90 days

Outcome domains

- Employment
- Education
- Housing
- · Criminal justice involvement



Positive and negative trends

Positive trend % (n)	Negative trend % (n)
12 (24%)	1 (2%)
11 (22%)	3 (6%)
12 (24%)	5 (10%)
14 (27%)	7 (14%)
2 (4%)	35 (68%)
	% (n) 12 (24%) 11 (22%) 12 (24%) 14 (27%)

Juvenile Justice involvement

	9 months pre-intake	9 months post-intake
Any substantiated offense	23 (61%)	11 (29%)

McNemar $\chi^2 = .965$, p=.008

Frequency of substantiated offenses

	9 months	9 months
	pre-intake	post-intake
No offenses	15 (40%)	27 (71%)
1 offense	9 (24%)	2 (5%)
2 offenses	5 (13%)	7 (18%)
3 to 5 offenses	7 (19%)	1 (3%)
6 or more	2 (6%)	1 (3%)
Mean	1.63	.71

Service hours over 9 months

1.6%

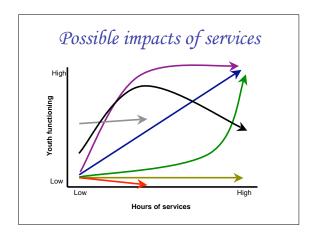
• The services received by the most youth were:

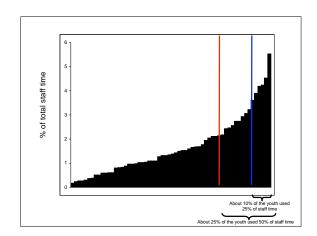
Community life adjustment 90.0% Employment services Assessment/intake 86.6% Wraparound 63.3% Team staffing 55.0% Educational support services 50.0% Housing support services 46.6% Core gift statement 41.6% Case management 33.3%

Crisis phone calls

• Staff time was spent on the following services

Community life adjustment 33.5% Employment services 27.5% Case management 9.8% Wraparound Assessment/intake 5.8% Educational support 5.7% Core gift statement 4.1% 3.6% Housing support services Team staffing 2.2% Crisis phone calls 0.02%





of positive trends at 9 months by youth

Predicting youth change using service hours

- Multiple regression predicting youth functioning 9 months after intake
- · Several models were run
 - looking for preponderance of evidence rather than single significant tests
 - not enough of a sample size to run more complex (but more appropriate) models

Predicting youth change: Models

Model	Predictor variable	Control variable	Outcome variable
1 Education N=45	Education service hours $\beta =01$	Rating of the extent MH problems interfered with school at intake $\beta =11$	Nine-month trend in education and training outcomes $R^2 = .01 \\ NS$
2 Arrests N=55	Total service hours $\beta = .09$	Number of arrests 3 months prior to intake $\beta = .21 \label{eq:beta}$	Arrests between intake and 9 months $R^2 = .05 \\ NS$
3 Employment N=47	Employment service hours $\beta = .42$ $p < .005$	Severity index at intake $\beta =24$ $p = .072$	Nine-month trend in employment outcomes $R^2 = .24 \\ p < .005$
4 Overall N=47	Total service hours $\beta = .10$	Severity index at intake $\beta =32$ $p < .05$	Summary index of nine-month trends over all domains R ² = .11 NS

Summary of findings

- Only one model, employment, was significantly predictive of youth functioning
- All of the point estimates (Betas) in all models were in the hypothesized direction, but most were not practically or significantly large.
- This data indicated a weak or no relationship between hours of services and youth functioning when controlling for functioning at intake

Limitations

- Studying the relationship between service hours and functioning ("dose-response") may be confounded by other factors
- The youth have multiple, unique needs and possibly multiple, unique trajectories that are difficult to analyze
- These measures of functioning and progress are not standardized and may have significant error variance

Contact

Nancy Koroloff

Portland State University

<u>Koroloff@pdx.edu</u>

Mike Pullmann

Vanderbilt University

Michael.D.Pullmann@Vanderbilt.edu