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ABSTRACT

The Gang Membership Inventory (GMI) was developed for use with urban high-risk youth and administered as part of a larger survey. The GMI consists of 15 true/false items asking about the respondent's involvement in gang activities in the year just past. Activities range from peripheral involvement to more serious involvement in gangs (e.g., being an actual gang member). The GMI was administered in English or Spanish to fifth through eighth graders at two Chicago (Illinois) elementary schools in predominantly Latino neighborhoods. Usable surveys were obtained from approximately 650 children. Forty percent of the respondents self-identified themselves as Puerto Rican, 28 percent as Mexican, 5 percent as both Mexican and Puerto Rican, and 7 percent as other Latino ancestry. Principal components analysis with varimax rotation produced three factors with eigenvalues greater than 1.0 that together accounted for 50 percent of the total variance. Because the factors do not appear to be well-defined, it was decided to retain the measure as a single scale. Validity of the GMI was assessed through a one-way analysis of variance and other measures. Also examined was the relationship between gang involvement and the subscales of the Teacher-Child Rating Scale. As expected, youth rated high or moderate on acting-out behavior were significantly more gang involved than were youth low in acting out. The GMI has been shown to be easy to administer and useful in determining different levels of involvement in youth gangs. One table displays GMI factor loadings, and six figures describe relationships of various variables to gang involvement. An appendix contains the GMI. (SLD)

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DETERMINING YOUTH GANG MEMBERSHIP:
DEVELOPMENT OF A SELF-REPORT INSTRUMENT

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Determining Youth Gang Membership: Development of a Self-Report Instrument

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Introduction

Urban areas are afflicted with the problems of youth street gangs. The costs to individual victims are the violent assaults and feelings of intimidation; the costs to the community are the property damage and the additional law enforcement (Thompson & Jason, 1988). Although most people acknowledge this problem, there is a paucity of information about gang behavior. To date, several theoretical formulations of gang behavior have been put forth, but little research evidence exists both for and against any one theory. Methodologically sound methods of determining gang membership is non-existent in large part because of the difficulties inherent in investigating gangs. Consequently, most researchers have had to depend on either self-report data or police department records, which have been found to be seriously inaccurate (Klein, 1971).

The present measure, the *Gang Membership Inventory (GMI)*, was developed by the authors for use with a sample of urban high-risk youth. The *GMI* consists of 15 true/false items asking whether the respondent, and in some cases a friend or family member, has taken part in various gang activities in the last year. The activities range from peripheral 'involvement' such as whether there was gang activity in the neighborhood or if any of the respondent's friends joined a gang to minor involvement (e.g., wearing of gang colors, making gang hand signs) to involvement of a more serious degree (e.g., being an actual gang member, hurting a gang member in a fight, delivering drugs for a gang).

Sample and Method

The *GMI* was administered anonymously, as part of a larger survey, to fifth through eighth graders at two Chicago elementary schools in predominantly Latino neighborhoods. The survey was read aloud in English to most classrooms while a Spanish version was orally administered to bilingual classrooms. Usable surveys were obtained from approximately 650 youth (90% of those enrolled). Forty percent of the youth self-identified themselves as Puerto Rican, 28% as Mexican, 5% as both Mexican and Puerto Rican, and 7% as being of another Latino ancestry such as Cuban, Guatemalan, Brazilian, Salvadorean, etc. Sixteen percent of the youth identified themselves as African American and 2% as European, White, not Hispanic. One percent of the sample described themselves in terms of European, Middle Eastern, or Asian nationalities and are referred to as 'other'.

Results

A principal components analysis with varimax rotation performed on the 15 item scale produced three factors with eigenvalues greater than 1.0 that together accounted for 50% of the total variance. The first factor accounted for 33% of the variance with the

remaining two factors accounting for 10% and 8%. The first factor appeared to consist of items mainly to do with fighting while the second factor included items relating to peripheral or minor gang involvement. Items of the third factor were split between those concerned with gang related drug activity and actually being a member of or leader of a gang. Because the factors did not appear to be well defined, it was decided to retain the measure as a single scale. This would serve to simplify future analyses and also to ensure greater reliability by utilizing a larger number of items. Items and their exact factor loading can be found in Table 1.

Subsequent item analyses performed on the *GMI* yielded a coefficient alpha of .83 with the minimum item-total correlation .34.

Validity of the *GMI* was assessed through numerous analyses. One way ANOVA's followed by post hoc Tukey tests of respondent's grade in school and gender revealed that seventh and eighth graders were significantly more gang involved than fifth graders (see Figure 1) and that boys were significantly more gang involved than girls, as expected. Similar analyses showed that students self-reporting academic grades of 'mostly A's' were significantly less gang involved than students self-reporting academic grades of 'mostly C's', 'mostly D's', or 'mostly F's' (see Figure 2). It was also found that youth who reported using drugs (including alcohol or cigarettes) at least once in the last year were significantly more gang involved than youth reporting no drug use in the last year (see Figure 3).

Also examined was the relationship between gang involvement and three subscales of the Teacher-Child Rating Scale (Hightower et. al., 1986) measuring acting out behavior, frustration, and shyness. As expected, youths rated as high or moderate on acting out behavior were significantly more gang involved than youth low in acting out. Youth judged to be highly frustrated were significantly more gang involved than low or moderately frustrated youth. Finally, there was a tendency ($p = .07$) for very shy and outgoing youth to be more gang involved than moderately shy youth (see Figure 4).

Additional analyses focused on the relationship of gang and family closeness with actual gang involvement. Closeness to gangs and family were concepts measured individually through five pairs of items worded in a parallel fashion. For example, "I felt I could be myself around gang members" related to gang closeness while "I felt I could be myself around family members" related to family closeness. As hypothesized, youth who felt close to gangs were significantly more gang involved than those reporting they felt only moderately close to gangs who were in turn significantly more involved than those reporting they did not feel close to gangs. Conversely, youth who reported feeling close or moderately close to their families were significantly less gang involved than youth who felt they were not close to their families (see Figure 5).

Discussion

The *Gang Membership Inventory* has been shown to be useful in determining different levels of involvement in youth gangs. The *GMI* takes approximately 3 minutes, is easy to administer, and is written in both English and Spanish. It also correlates well with

other high-risk indicators, including substance use and school problem behaviors. The greatest advantage of the *GMI* is that it appears to be the only published scale to date that assesses youth gang membership. Future work will focus on validating the scale with other high-risk populations.

References

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Klein, M. W. (1971). Street Gangs and Street Workers. Englewood Cliffs, NJ: Prentice-Hall.

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Table 1
Rotated Factor Loadings of the Gang Membership Inventory

Items	F ₁	F ₂	F ₃
Beaten up by a gang because did not join	.74	-	-
Fought representing a gang	.67	-	-
Hurt a gang member in a fight	.64	-	-
Approached by a gang member to join	.61	-	-
Spray painted gang signs	.53	-	-
Carried weapon to protect self	.41	.41	-
Wore gang colors	-	.66	-
Made gang hand signs	-	.65	-
Friends joined a gang	-	.64	-
Gang activity in neighborhood	-	.60	-
Household member joined gang	-	.43	-
Delivered drugs for gang	-	-	.89
Sold drugs for a gang	-	-	.89
Member of a gang	.47	-	.49
Leader of a gang	-	-	.42
Variance accounted for	32.9%	9.7%	7.6%

Note: Dashes indicate loadings of less than .40.

Figure 1
The Relationship of Grade in School to
Degree of Gang Involvement

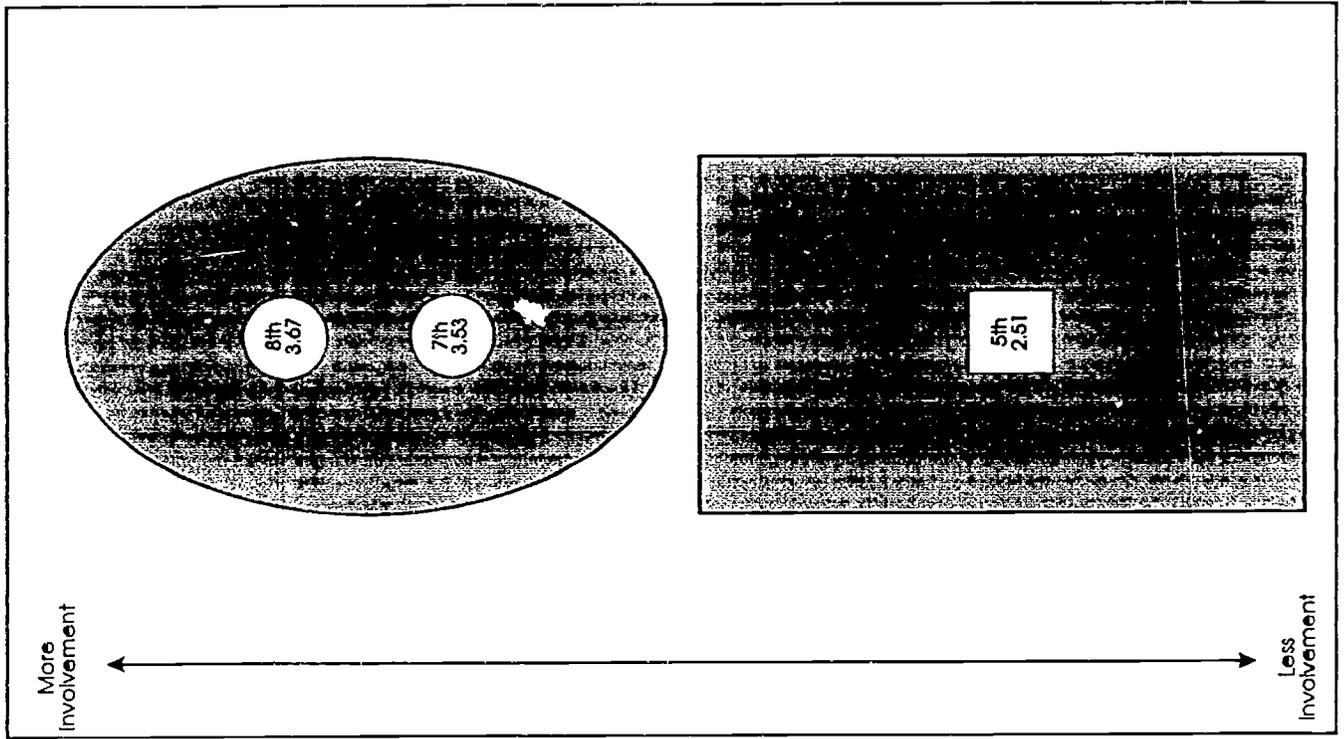


Figure 2
The Relationship of Academic Grades to
Degree of Gang Involvement

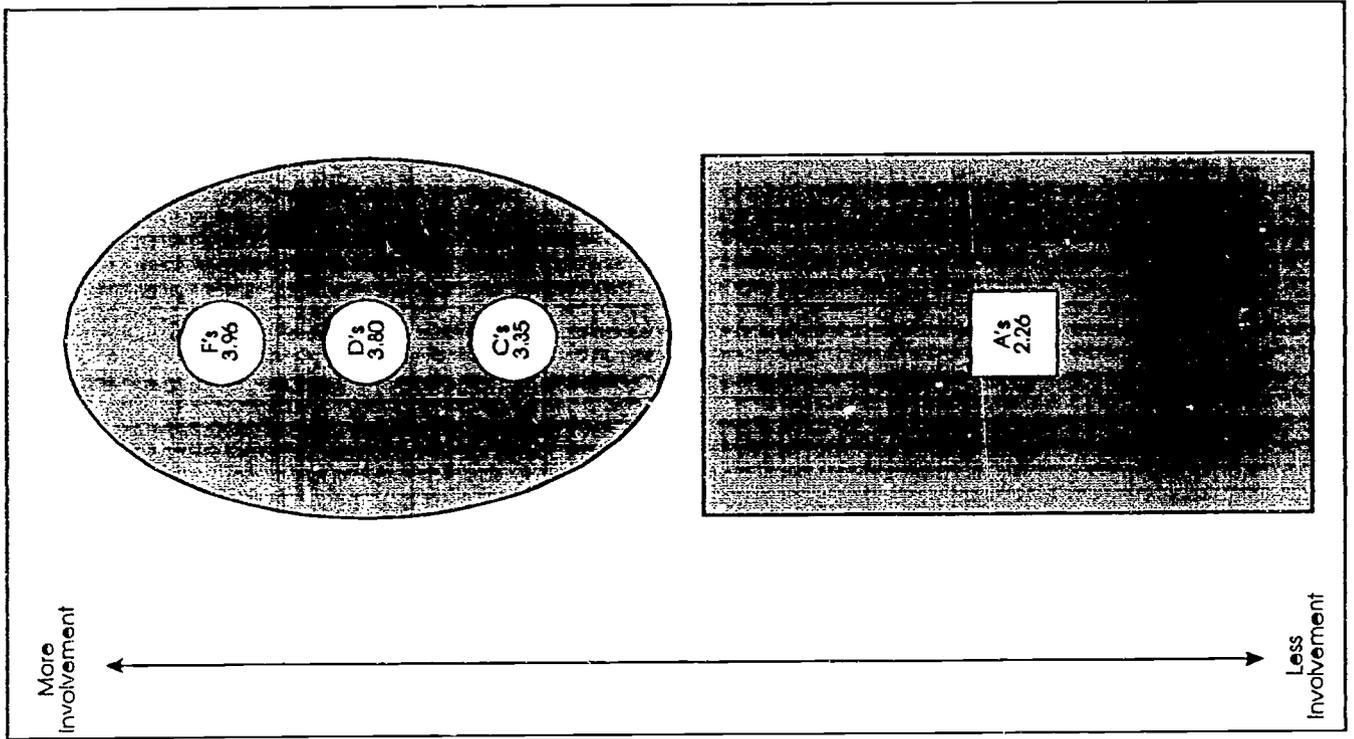


Figure 3
The Relationship of Drug Use in Last Year to
Degree of Gang Involvement

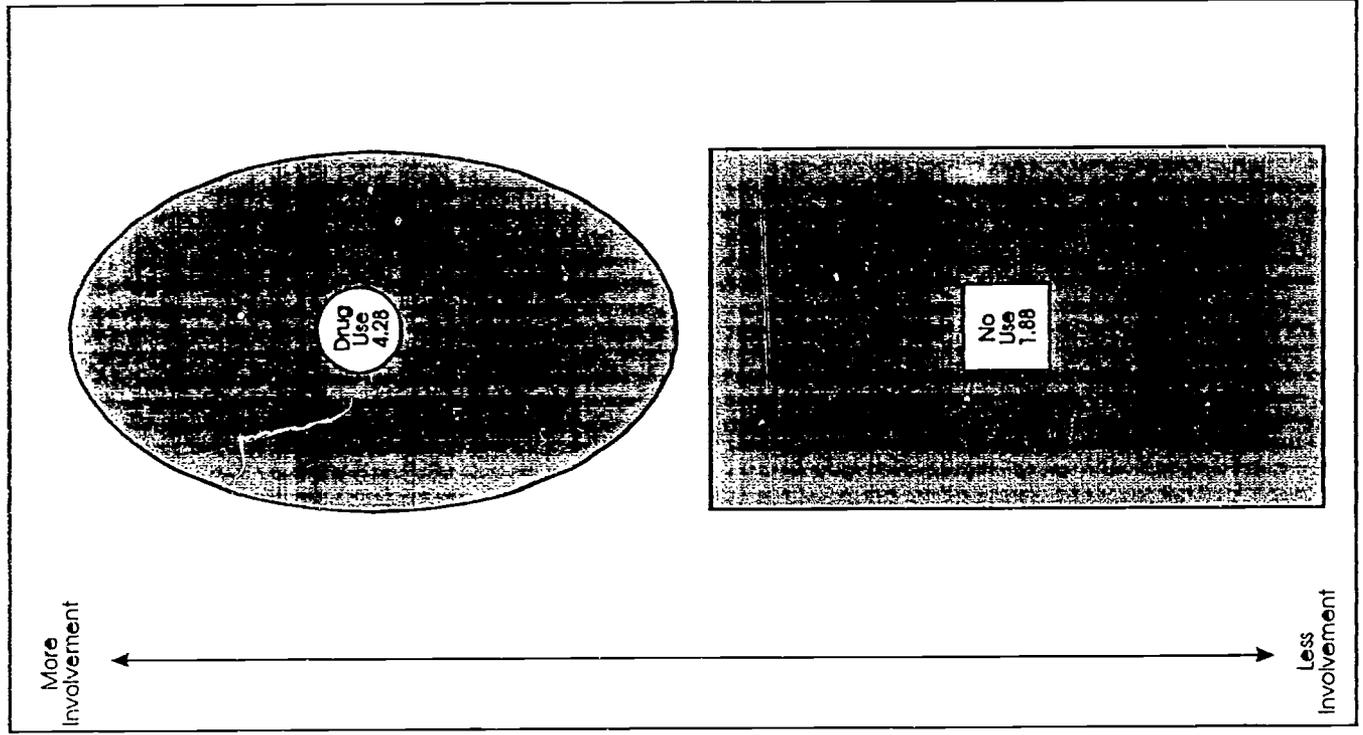
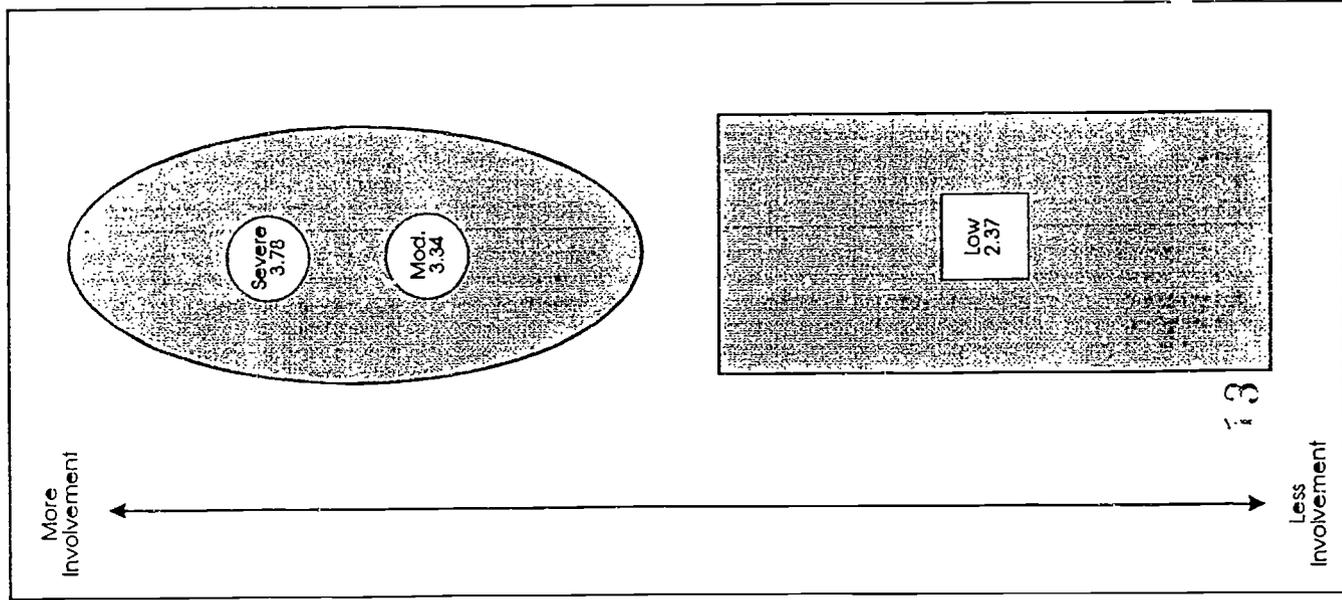
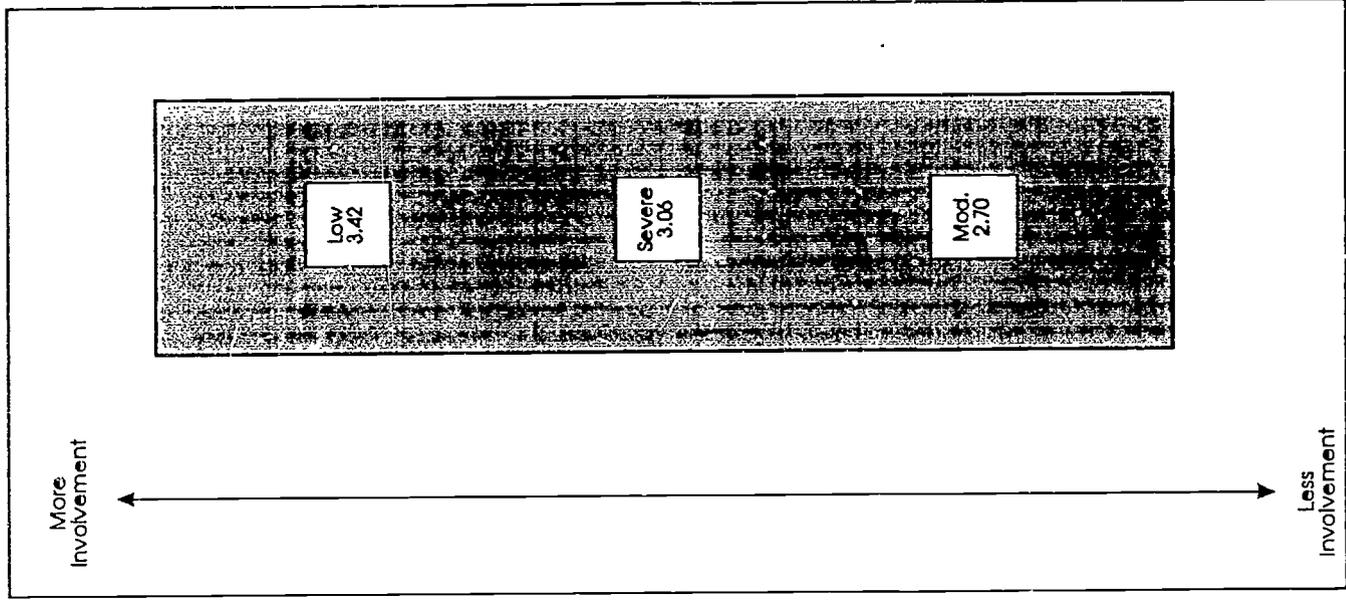


Figure 4
The Relationship of Teacher Completed Student Conduct Measures on Degree of Gang Involvement

Acting Out Behavior



Shyness



Frustration

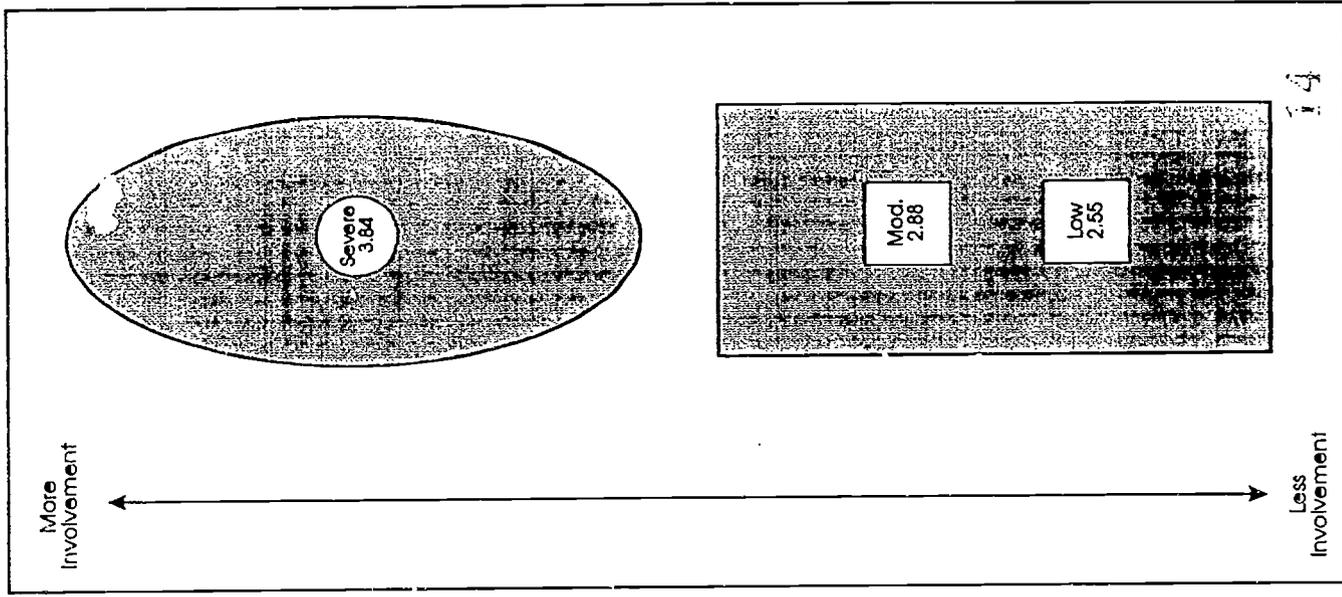


Figure 5
Effects of Closeness to Gangs on
Degree of Gang Involvement

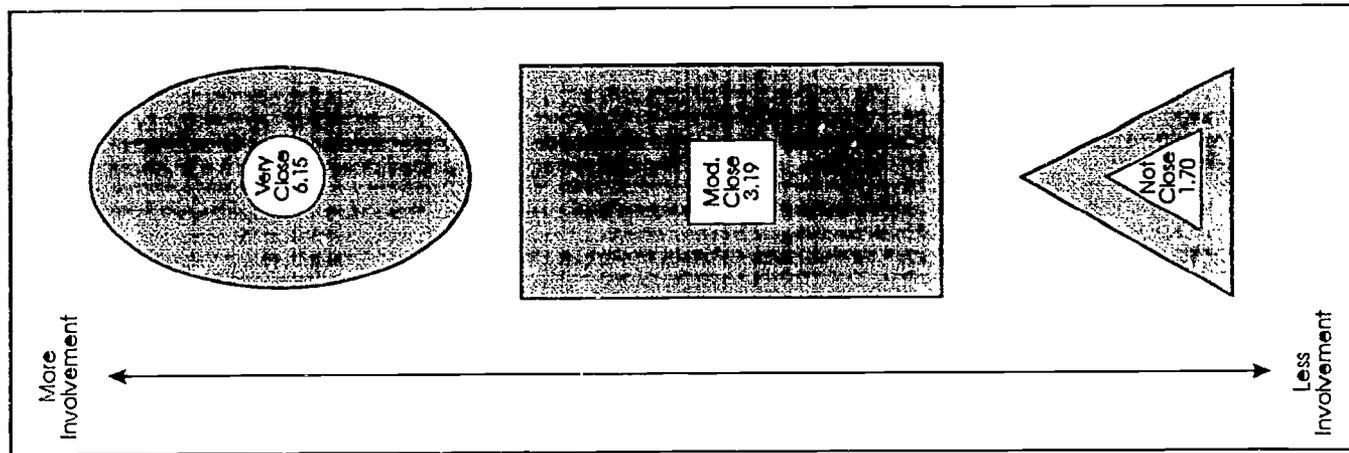
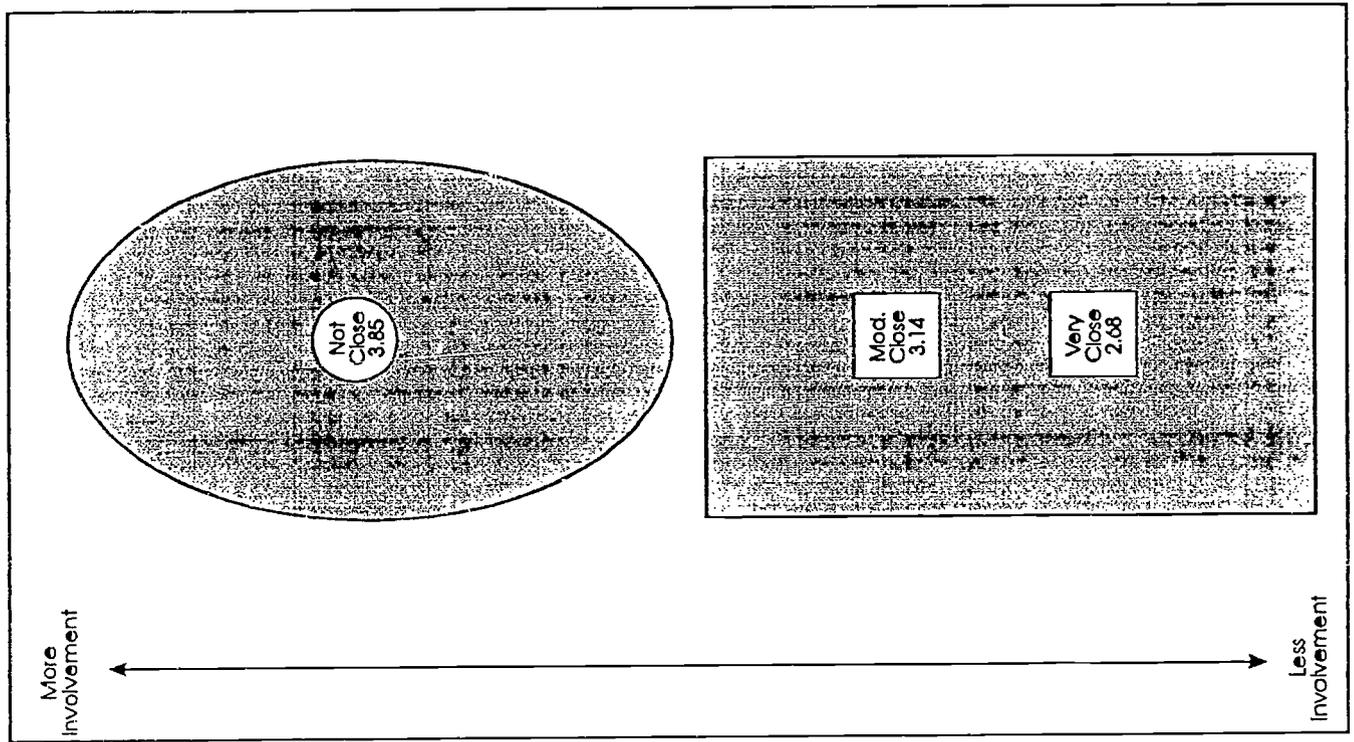


Figure 6
The Relationship of Family Closeness to
Degree of Gang Involvement



Appendix

GANG MEMBERSHIP INVENTORY

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GANG MEMBERSHIP INVENTORY

We are interested in how much you and your friends are affected by gangs. By gangs, we mean any street club that carries a name, wears colors, and represents. Please check one box for each question.

In the last year:

- | | Yes | No |
|--------------------------------------------------------------------------------|--------------------------|--------------------------|
| 1. Was there gang activity in your neighborhood? | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Were you approached by a gang member to join a gang? | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Were you beaten up by a gang member because you didn't want to join a gang? | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. Did any of your friends join a gang? | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. Did anyone in your household join a gang? | <input type="checkbox"/> | <input type="checkbox"/> |
| 6. Were you a member of a gang? | <input type="checkbox"/> | <input type="checkbox"/> |
| 7. Did you wear gang colors on purpose? | <input type="checkbox"/> | <input type="checkbox"/> |
| 8. Did you make gang hand signs on purpose? | <input type="checkbox"/> | <input type="checkbox"/> |
| 9. Did you take part in a fight representing a gang? | <input type="checkbox"/> | <input type="checkbox"/> |
| 10. Did you spray paint gang signs on a wall? | <input type="checkbox"/> | <input type="checkbox"/> |
| 11. Did you deliver drugs for a gang? | <input type="checkbox"/> | <input type="checkbox"/> |
| 12. Did you carry a weapon to protect yourself? | <input type="checkbox"/> | <input type="checkbox"/> |
| 13. Did you hurt a gang member in a fight? | <input type="checkbox"/> | <input type="checkbox"/> |
| 14. Did you sell drugs for a gang? | <input type="checkbox"/> | <input type="checkbox"/> |
| 15. Did you become a leader of a gang? | <input type="checkbox"/> | <input type="checkbox"/> |

Supplemental Survey Questions

Family Closeness Scale

In the last year:

	Almost always	Sometimes	Almost never
I felt close to my family.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
My family offered me help when I was in a bad situation.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
I asked family members for help.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
I felt I could be myself around family members.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I felt it was important to go along with family members.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Gang Closeness Scale

In the last year:

	Almost always	Sometimes	Almost never
I felt close to gang members.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gang members offered me help when I was in a bad situation.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I asked gang members for help.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I felt I could be myself around gang members.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I felt it was important to go along with gang members.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>