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ABSTRACT

An alcohol and drug use education program was developed by teachers and administrators in Mora, a small, isolated Hispanic community in northern New Mexico, in cooperation with the town's public health nurses and a University of New Mexico research team. Pre- and posttests were given to 150 students in grades 7-9 in the Mora Public Schools to assess: behavioral intent for accompanying drinking drivers and experimenting with pills, knowledge of alcoholic content of beverages, perceived impairment of driving ability from marijuana smoking, frequency of drinking to excess, and frequency of accompanying drinking drivers. Teachers kept logs of drug/alcohol related incidents. Treatment exercises were given to students after teachers received inservice training in their use. Health promoting outcomes included favorable changes in behavioral intent for riding with impaired drivers. Interviews with teachers and officials suggested that health behavior variables such as peer pressure were not sufficiently impacted by treatment exercises. Previous attempts by health educators had failed in this close-knit, culturally isolated town: but, this program was accepted because the research team observed cultural strictures, was introduced by an accepted individual, and prompted community responsibility for resolving the problem. Appended tables include pre- and posttest results, sample reporting forms, and teacher reports of substance misuse incidents. (LFL)

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Health Promotion Efforts In An Isolated
Hispanic Community:
The Mora Substance Abuse Prevention Project

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Introduction

For many years the field of Health Education has posited as an integral priority the engagement of minority populations* in health promotion efforts (1-3). Various investigators have made seminal and contributory advances in this important area (4-6). When the literature is reviewed, however, there emerges a considerable lack of studies which plan and actually execute longitudinal assessments of initial research. Moreover there is a definitive lack of reports which present and interpret outcomes via the perceptual world of the persons receiving the program (7-8).

The field continues to conduct important health-enhancing research that aims to improve either directly or indirectly, the health of minority groups. In evaluating the impact of such efforts health behavior investigators also continue to employ statistical significance tests (9-11). While such tests have been shown to be visually and verbally impressive they fail miserably in helping non-researchers understand what actually occurred (12-13). Too few studies have grounded their evaluations upon the phenomenological perspective of the persons for whom the investigation was originally intended.

The program described herein was developed in concert with a constellation of entities, all of whom had a vital interest in the project outcome(s). These entities included seven teachers from the target school, the school's assistant superintendent and principal, the towns public health nurses and the research team from a major university. Throughout the entire planning period each of these groups worked together to insure that the selected educational units were understandable and applicable to students at the various levels.

^{*}Women and the geriatric population are generally to be conceptualized in a public health education framework as minorities.



Subjects and Setting

Subjects for the study consisted of 150 students from grades 7-9 at the Mora Public Schools. Mora, New Mexico (pop. 1,200) is in the northern portion of the state and is almost exclusively Hispanic individuals who claim their ancestery directly from the Conquistadores of Spain. Students generally come from lower-middle class social economic strata and are heavily Catholic. The only main street through the town is one-half mile long yet it possesses nine different establishments serving and selling alcohol. The town experiences an extreme winter climate with roads becoming snowy and icy from December to March. The community is 23 miles from the nearest major town and is extremely close-knit and protective in nature.

Methods

In the Spring of 1985 a group of researchers from the University of New Mexico travelled to the town of Mora, New Mexico (pop 1,200) to meet with Mora school officials and teachers. The intent of the meeting was to see if a prevention-based alcohol and drug intervention could be developed for Mora students.* There was consensus that a program could be jointly built that would meet the needs of the students, school officials and ultimately the community.

Needs Assessment. A 36-item needs assessment was conducted two-months after the final planning meeting and two in-service training workshops for participating teachers. The survey was anonymous, self-report, sealed questionnaire format with cognitive, perceptual, behavioral intent, affective, demographic and conative variables. Results of this baseline assessment are reported elsewhere (14, 15).

^{*}This gathering was a result of an initial meeting between the state Health and Environment Accident Prevention Director, Mr. Jeff Pine and Mora Public School officials.



In essence, the survey indicated that alcohol and to a lesser extent marijuana, were the health behaviors of primary importance. The high rates of usage in these areas were compounded by the finding that students frequently used these substances while driving or accompanying drivers who were. The findings suggested that the point of onset for misuse of these drugs was the eighth or ninth grade. With this basis the program was designated to be run in grades seven through nine only.

Teacher logs were also distributed and assessed during this period (See Appendix \underline{A}). Teachers were asked to report the number and type of "drug and alcohol" related incidents they themselves had experienced at the school **dur**ing the past school year. An incidents rate was derived from these data.

<u>Program Units</u>. As a direct result of findings from the needs assessment, teacher input and consultation with a comparable sample of students at a separate school, an array of treatment exercises were designed. These exercises were produced conjointly between all of the parties involved. Appendix <u>B</u> gives a complete listing and brief explanation of these programs. Teachers were given in-service training to allow them practice using the exercises. The various units were implemented during certain health and science periods throughout the following twelve-months.

Measurement

Student responses at baseline and posttest were coded and stored on computer disk. Since the project is to be evaluated periodically for an indefinite duration storage of data in an easy access and secure locale was of prime importance.

Data were analyzed using Chi-square and t-test analyses. Two and threeway analysis of variance was also conducted but are not presented in this report.



Contingency coefficients and other relationship measures (tau) were calculated with the Chi-square statistic but in the interest of clarity are not included in these tables.

The Chi-square statistic was employed because the research data are in the form of frequency counts that were placed into categories.* The t-test was utilized because it accounts for different sample sizes and because differences between pre-and posttest group means for different variables was to be analyzed. Regardless of whether or not Chi-square or t-tests were calculated statistical significance outcomes were identicle (p < .05 standard cutoff level). Only Chi-square analyses are given in this report.

Measurement of program results were also assessed qualitatively by interviewing school officials and teachers, and by archival records retrieval (dwi rates from state traffic bureau). Moreover teacher logs from both pre-and posttest data points are presented descriptively. (See Appendix C).

Temporal Dimension

Due to the fact that the project initiated in the Spring - mid way through the academic school year, students were by necessity seventh-graders at present (baseline) but eighth-graders at posttest (year-end). This temporal abnormality must be kept in mind when interpreting results because of the numerous potential "nuisance variables" it spawns (16).

Findings

<u>Survey.</u> Due to the magnitude of variables, grades and data generated during the first year only selected outcomes will be reported. Table <u>l</u> gives the vignettes used to assess behavioral intent for the variables of accompanying drivers "under the influence" and pill experimentation. The lower the mean

^{*}See Borg & Gall, Educational Research, Third Edition, 1979 - New York: Longman, for a detailed review of both theChi-square and t-test assumptions.



INSERT TABLE I HERE

score for these items the more "health-promoting" the response.

Table 2 presents the Chi-square assessment for the variable of intent to ride with a drinking driver for eighth and ninth-grades. Note that at pretest, eighth graders were actually in the seventh-grade and ninth graders were actually in the eighth grade.

INSERT TABLE II HERE

For both grades at posttest reported intention to ride with a drinking driver was significantly more favorable (i.e., definitely/probably no responses collapsed). The percent reporting "health risky" intentions at posttest decreased for both grade levels. (P<.0001).

Table 3 gives the results for the variable of friends intent to try pills. For both grades at pretest the percent reporting "health risky" intentions for friends was 62% and 55%, respectively. At year end these figures decreased to 16 and 20 percent, respectively. This finding was statistically favorable for both grades. (P<.001).

INSERT TABLE III HERE

One cognitive variable concerning alcoholic content of various beverages is assessed in Table 4 for eighth graders. The percent reporting "all equal" (appropriate knowledge) at year end (50%) was much larger than at baseline (12%) and was statistically significant (p < .0001)

INSERT TABLE IV HERE



N t all variables resulted in substantial differences. Table 5 presents the outcomes for perceived impairment of driving ability from marijuana smoking. At pretest 58% were correct in perceiving impairment while at posttest, 52% perceived impairment of driving skill from marijuana.

INSERT TABLE V HERE

Table 6 presents the results from one of the behavioral items dealing with frequency of drinking to excess for tenth-graders. The proportion responding "sometimes" or "always" to this item reflects an alarming yet not unexpected finding.

INSERT TABLE VI HERE

Frequency of accompanying drinking drivers for ninth-graders is given in Table 7. There were statistically significant findings on this variable (p < .01) with stadents at the year-end survey reporting fewer episodes of riding with drivers under the influence of alcohol.

An array of other outcomes were analyzed in the year-end evaluation but are not presented or interpreted in this report.

INSERT TABLE VII HERE

Discussion

The outcomes for the first-year of this minority-focussed project were quite promising. Initial meetings with teachers at the beginning of the program reflected a climate of considerable pessimism and caution. Teachers forecasts about a relative absence of positive outcomes from the first years efforts were fortunately erroneous. All groups responsible for the design



and implementation of the project concurred that for favorable changes to emerge a two or three-year latency period may well have to pass. Fortunately, this was not the case and health-promoting outcomes were evident after the first year.

Researchers have proposed that a person's behavioral intention (BI) toward a specified behavior is a relatively sound proxy measure for what the person's actual behavior would constitute (17, 18). While not as empirically precise as some BI measurements of past investigations the vignettes employed in this program consistently produced favorable changes, across grades, gender and behavioral focus (19). If indeed the BI of these students toward riding with impaired drivers is a good indicator of their later in vivo actions, then one could <u>cautiously</u> predict that actual behavior in such situations will be similarly affected at some future date. Only the passage of time and periodic follow-up analyses can offer additional evidence on this hypothesis.

While BI results were consistently favorable there were less encouraging outcomes for other variables of interest. The frequency of riding with marijuana-smoking drivers actually increased for eighth-graders at posttest (P .267) and there was no statistical difference pre- to posttest for tenth-graders' frequency of drinking "too much" (P .660), even though percentage-wise (27% - 21%), there was a relative reduction (Table VI).

Explanations for such apparently contradictory findings await additional psychometric assessments and diagnostic interviewing. Preliminary perceptions of school and community officials suggest that various components of older student's health behavior (i.e., peer affilliation need) were not sufficiently impacted by the treatment modalities.



One of the most crucial implications from this study for the field of Health Education concerns entrance and acceptance into the community itself. Northern New Mexico is comprised of literally hundreds of small, isolated, tightly-knit towns with old world Spanish ancestory. Each of these towns have the same kind of health behavior scenario (i.e., drinking and driving) portrayed in Mora. Each of these towns are protective and cautious in nature where outsiders are concerned.

For many years various health educators had tried unsuccessfully to engage the public schools in Mora. The reason the current team was accepted into the community was because cultural strictures and unwritten rules were observed (20). The research team was introduced to the "gatekeepers" of the school by an already affilliated and accepted individual (i.e., a homophile) from the State Department of Health (p .321). In sharp contrast to previous attempts the research team did not propose that they would solve the communitie's problem. As Dr. Marshall Kreuter of the Centers for Disease Control and others have stated the efficient health educator is one who is successful in getting a community to perceive a problem as their own and take responsibility (action) for its resolution (21, 22).

While this research does not yet establish a generalized prototype for other small school systems in Northern New Mexico, it does contribute some valuable guideposts for other investigators and school officials to examine. Because of the high level of caring, dedication and attachment the community has for its youth the program has been given an indefinite time period in which to periodically revise, implement and assess it's impact upon the health status of the town.



TABLE 1

V-30: BEHAVIORAL INTENT: ACCOMPANYING DRINKING DRIVERS

You are in Las Vegas watching a movie with your friends. Your friends have driven you there. While watching the movie, your friends start drinking beer. After the movie they find their car and start home. Would you go with them?

| Definitely | Probably | Not | Probably | Definitely |
|------------|----------|------|----------|------------|
| Yes | Yes | Sure | No | No |
| | | | | |

V-31: BEHAVIORAL INTENT: ACCOMPANYING MARIJUANA SMOKING DRIVERS

In the previous story suppose instead of drinking your friends had been smoking marijuana during the movie. Would you go with them?

| Definitely | Probably | Not | Probably | Definitely |
|------------|----------|------|----------|------------|
| Yes | Yes | Sure | No | No |
| | | | | |

V-32: PROJECTED INTENT OF FRIENDS TO TRY PILLS

Suppose you were at a party with your friends and everyone was drinking and smoking marijuana. Suppose at the party someone was offering your friends some pills. Do you think your friends would try the pills?

| Definitely | Probably | N ot | Probably | Definitely |
|------------|----------|-------------|----------|------------|
| Yes | Yes | Sure | No | No |
| | | | | |

From: Duryea, E.J. - The Mora Risk Project, <u>Summary Report to the Scientific Advisory Council</u>, <u>DISCUS</u>, April 1986.



TABLE 2

BEHAVIORAL INTENT TO RIDE WITH A DRINKING DRIVER

| 8th Grade: | "Health Promoting" Definitely/Probably No | Not Sure | "Health Risky" Definitely/Probably Yes |
|---|---|-------------|--|
| PRETEST (N=50) | 7/50 14% | (15/50) | 27/50 <u>54%</u> |
| POSTTEST (N=64) | 31/64 <u>48%</u> | (20/64) | 13/64 <u>20%</u> |
| X ² = 32.96, p < . 9th Grade: | 0001, df = 5 | | |
| PRETEST (N=51) | 17/51 <u>33%</u> | (15/51) | 19/51 <u>37%</u> |
| POSTTEST (N=65) | 30/65 46% | (19/65) | 16/65 25% |
| $x^2 = 17.58, p < .$ | 003, df = 5 | _ | |



MARIE 3
WARD YOUR FRIENDS INV PILES AT A PARTY?

| And the Course the a | [™] ййсжії ти Резимозі вику [™] | | Thogton Highly |
|---------------------------------------|---|--------------------|---------------------|
| | Definitely/Fromably | Police E | Definitely/Probably |
| | MÓ | Sylo | Yea |
| PH 1651 | 5/30 | (11/30) | 11/50 |
| The Salt | igs | | 62% |
| eustics t | 21/64 | (26/64) | 10/64 |
| TELLY | 428 ****** | | 16% |
| 2 ± 35,7m, p t . | (000) of = 5 | | |
| 2 <u>; 55,78, p ; .</u> 9th Grades | (000)†, df = 5 | | |
| 9th Grades | | /16/51) | 28/51 |
| 9th Grades | (900)†, df = 5 7/51 168 | (16/51) | 28/51 55% |
| PRE 1651 TRESTY PRE11651 | 7/51 148 | (16/51) (21/65) | |
| Mith Grades MILLST | 7/51 168 | · , | 558 |



TABLE 4 WHICH OF THE FOLLOWING HAS THE MOST ALCOHOL?

| 8th grade: | | PRETEST (N=41) | POSTTEST (N=64) |
|---------------|-------------------------------------|-------------------------------|--------------------------|
| | Beer Liquor Wine All Equal | 1 35 0 5 (12%) | 1 30 1 32 (50%) |
| | | $x^2 = 28.80$ df= 4 p = .0001 | |

TABLE <u>5</u> DO YOU THINK MARIJUANA HURTS YOUR ABILITY TO DRIVE?

| 9th grade: | | PRETEST (N=50) | POSTTEST (N=65) |
|---------------|--|-------------------------|---------------------|
| | No, Not at All Probably a Little Yes | 8 13 29 (58%) | 7 24 34 (52%) |
| | | $x^2 = 3.08$ df= 3 p378 | |

TABLE 6 HOW OFTEN DO YOU DRINK "TOO MUCH"?

| 10th grade: | | PRETEST (N=51) | POSTTEST (N=65) |
|----------------|------------------------------------|-----------------------------|-----------------|
| | Never Sometimes Always Don't Drink | 13 14 24 | 18 13 1 |
| | DON'T Drink | $\chi^2 = 1.59$ df = 3 p660 | 33 |

TABLE 7 NUMBER OF TIMES IN THE PAST MONTH YOU HAVE RIDDEN WITH A DRINKING DRIVER

| 9th grade: | PRETEST (N=50) | POSTTEST (N=62) |
|---------------|--------------------------------|-----------------|
| 0 | 39 | 34 |
| 1-2 | 7 | 22 |
| <u>3-6</u> | 1 | 6 |
| 7-10 | | 1 |
| > 10 | 3 | 1 |
| | $X^2 = 12.14$ df = 4 p01 | |

APPLNDIX A

THE MORA PROJECT

Dear Mora Teacher-Coach:

A preventive alcohol and drug project is currently being planned for Mora students. With your help it will eventually reduce damaging alcohol and drug behavior in Mora students. We need to ask your help in getting an estimate of "where we are" with the problem(s) right now. Please fill out the following items and return to Mr. Aragon before the school year ends.

Thank you for your help!

| Number of alcohol or drug-related incidents you've encountered over the past school year in your classes: |
|---|
| Grade-level of student(s) involved in these incidents: |
| Type of drug (count alcohol as a drug) involved: |
| Description of the incident(s) (use back of form if needed) |
| |
| |
| |
| · · · · · · · · · · · · · · · · · · · |
| Other observations you have had |



IX

- 1. Facts and Myths About Alcohol
- 2. Responding to Dares Exercises
 - a) Staying Out Late on a Date
 - b) Stealing
 - c) Drinking Wild Turkey Whiskey
 - d) New Kid on the Block
 - e) A Self Dare
 - f) A Letter of Challenge
- 3. Choice Dilemma Exercises
 - a) Chris and Michael marijuana
 - b) Jim new job
 - c) Marie driving while intoxicated
 - d) Mike graduation
 - e) Mark and Carla marriage
 - f) Eddie drinking to excess
 - g) Jennie pedestrian death
 - h) Benjie and Juan parties
- 4. Summary
- 5. Role Play Vignettes
- 6. Nebraska Prevention Center Videotapes (8) On Resisting Peer Pressures
 To Misuse Alcohol
- 7. The Group and You Videotape on Peer Group Dymamics Sunburst Corporation
- 8. Virginia Sanchez, Mora Public Health Nurse How To Make Better Alcohol and Health Decisions



APPENDIX C

TEACHER LOG RESULTS-BASELINE

of teachers responding: 24

of teachers reporting alcohol and/or drug-related incidents: 11

of total incidents reported: 34

Grade distribution of the incidents:

| grade (#) | type of substance |
|-----------|---------------------|
| 12th (6) | alcohol & marijuana |
| 11th (15) | alcohol & marijuana |
| 10th (12) | alcohol & marijuana |
| 9th (1) | alcohol & marijuana |
| | |

Rate of incidents detected per school week:

Most common observations of teachers:

- (1) disruptive or nonresponsive student in class
- (2) odor of marijuana and/or alcohol on student
- (3) red eyes of student(s) observed after lunch
- (4) smoking behind the school gymnasium



APPENDIX C

TEACHER LCG RESULTS - YEARS END

of teachers responding: 16

of teachers reporting alcohol and/or drug-related incidents: 5

of total incidents reported: 13

Grade distribution of the incidents:

| grade (#) | (#) type of substance | |
|-----------|--------------------------------|--|
| 12th (7) | Alcohol & marijuana | |
| 11th (4) | Alcohol & marijuana | |
| 10th (0) | 4 , 4 , 4 | |
| 9th (1) | Alcohol | |
| 8th (1) | Alcohol | |
| 7th (0) | | |
| | | |

Rate of incidents detected per school week:

13 incidents total
36 school weeks = .36 incidents/week/school year

Most common observations of teachers:

- (1) student's glassy eyed in class
- (2) student's excusing themselves to the restroom
- (3) student's appearing nauseous
- (4) student's smelling of liquor





STATE OF NEW MEXICO

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TRAFFIC SAFETY BUREAU

P. O. BOX 1028

SANTA FE. NEW MEXICO 87504-1028

505-827-4776

March 24, 1986

Dr. Eli Duryea Health Promotion Division College of Education University of New Mexico Albuquerque, New Mexico 87131

Dear Dr. Duryea:

Enclosed are copies of a computer printout depicting citation data for Mora County. The information is not available for Mora City, but the location where the citations were issued is available.

The 602 is the code for State Police, district 2. I have also included the date of the citation, age, and sex of driver.

If you have any questions or need further information, contact Mr. Carm Martinez of this office at 825-4567.

Sincerely,

John D. Fenner, Chief Traffic Safety Bureau

JDF:CM:cm

cc: Grant 2-TR-86-01-01-02



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NEW MEXICO TRANSPORTATION DEPARTMENT

N'EW MEXICO TRANSPORTATION DEPARTMENT TRANSPORTATION STATISTICS BUREAU ***** PLANNING/DEVELOPMENT DIVISION NUMBER OF DWI CITATIONS ISSUED IN THE COUNTY OF MORA DURING THE TIME FRAME JULY 1984 THROUGH MARCH 1986 TALLY DRVAGE SEX LOC1 ISSUAGY VIODATE Μ. 63 WAGON MND SCH 395 ---- 850107 ISSUAGY TOTAL M 37 125 851012 602 M --- -- 56 125 602 ----851115 26 М × 851213 602 M SR 3 602 850328 SR-3 850424 602 M 53 850209 SR 3 602 18 **I25** 602 850414 . -..40 M **- 125** 602 85060B 24 M SR 3 850127 602 18 M SR 3 850210 602 1-6 SR-38-850402 602 20 M SR 3 602 850421 60 M SR 3 841212 602 24 M SR . 3 . ···841220 602 20 M SR 3 841227 602 27 SR 3 841228 602 20 SR "3" 841020 602 34 SR 3 841023 602 38 SR 3 841111 602 --- 25 -M 3 841124 ---- SR 602 34 M SR 21 850104 602 33 SR 3 602 850116 21 SR"94 ---841003 602 19 SR 21 602 841010 25 SR 3 841222 602 33 SR 3 602 · 841229 27 М 841229 SR 3 602 28 SR 3 850101 602 27 840922 --- SR 3 602 23 602 840928 SR 3 25 М SR 3 841102 602 51 Μí · SR 3 841216 602 26 mi 1 - 25602 850216 31 850216 602 77 M 851129 ---¥ . .. - 602 39 М 841013 * 602 58 **I25** 602 841991 M 65 125 841203 602 54 841218 **I25** 602 24 M SR 3 602 850127 58 M 851227 -)(· 602 27 M ₩ 860228 602 55 M 860301 602 49 662 851224 52 602 860216 26 M

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