Michigan Prevention Data System (MPDS)

Prevention Outcomes Survey

Cumulative Report of FY20 Survey Responses

Report prepared by Michigan Public Health Institute, 2021

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Introduction

The Michigan Department of Health and Human Services (MDHHS), Office of Recovery Oriented Systems of Care (OROSC) is committed to using state and federal funding in the support and expansion of substance use prevention infrastructure within Michigan. OROSC works in partnership with local agencies to provide prevention, treatment and recovery programs throughout all regions of the state. Michigan is divided into 10 Prepaid Inpatient Health Plan (PIHP) Regions with local agencies (provider agencies) that deliver programs for substance use prevention, treatment and recovery.

Information about the types of programs and activities offered, as well as accumulated recipient data, is reported through the Michigan Prevention Data System (MPDS) for Substance Use Disorder Services (SUDS). MPDS-SUDS is a reporting system that collects this information about activities at a local agency individual staff level. MPDS is designed to assist OROSC in collecting and reporting the data required by the Substance Abuse and Mental Health Services Administration (SAMHSA). MPDS-SUDS is managed and maintained by Michigan Public Health Institute (MPHI). MPHI also conducts bi-monthly meetings with the MPDS-SUDS User Group which consists of PIHP Region Leads, Provider Agency Leads, OROSC and other MDHHS administration staff to discuss MPDS-SUDS questions and enhancements.

In 2017, OROSC invited members from the bimonthly user group to participate on a workgroup to identify outcome measures related to SUD prevention programming. The Workgroup developed a survey instrument designed to collect data about program outcomes and provide additional results that would assist with reporting, grant proposals and program planning among other areas.

The survey primarily focuses on measuring perceived risks of the following substances:

- Marijuana
- Cigarettes
- Vapor Products
- Prescription Drugs/Painkillers
- Alcohol/Binge drinking

This report compiles survey results from fiscal year 2020 when the full survey process began. Due to the COVID-19 pandemic, survey administration has been put on hold for fiscal year 2021. Survey administration will begin again in FY22.

State Level Results Overview

Between pre- and post-test, for youth participants:

- Perceived high risk of use of all listed substances increased among selective and indicated populations.
- Average risk perception of harm for all listed substances increased but the increases were not statistically significant in both selective and indicated populations; and
- Self-reported use of substances in the past 30 days decreased with the exception of prescription drug use in the indicated population.

In adult participants, the perception of risk increased from pre- to post-test and self-reported use in the past 30 days decreased for all listed substances in the selective population.

Methodology

The Michigan Prevention Outcomes Survey was modeled after the Michigan Profile for Healthy Youth (MiPHY). MiPHY is an online student health survey offered by the Michigan departments of Education and Health and Human Services to support local and regional needs assessment. While the MiPHY survey contains many different health risk behavior questions related to violence, physical activity, nutrition, sexual behavior and emotional health, only the substance use questions were used as the focus of the Michigan Prevention Outcomes Survey. Although this survey was administered in FY19, this initial year was considered a pilot for testing the survey's viability and accompanying protocols.

The first stage of the survey focused on middle school and high school-aged children between 7th grade and 12th grade. Provider agencies hosting prevention services to youth administered the surveys in-person and on paper.

Provider agencies must offer ongoing-sequential programs to qualify for participation in the survey project, meaning that the program must consist of the application of a curriculum consisting of multiple sessions in a planned sequence. Not every region had provider agencies that offered ongoing-sequential services. The regions which provided qualified services and submitted survey results during the 2020 fiscal year were Lakeshore Regional Entity, Mid-State Health Network, Community Mental Health Partnership of Southeast Michigan, Detroit Wayne Integrated Health Network, Oakland Community Health Network and Macomb County Community Mental Health Services. However, due to the COVID-19 pandemic quarantine, many regions were not able to continue administering the survey for the entire year. Most regions were not able to collect survey data during the third and fourth quarters of the year. Therefore, the majority of the post-test data in this report is based on the data submitted prior to service disruption due to the pandemic.

The provider agencies offer programs that fall under two different intervention types: indicated and selective. Indicated programs include activities targeted to individuals who have been identified as having minimal but detectable signs or symptoms foreshadowing disorder or having biological markers indicating predisposition for disorder but not yet meeting diagnostic levels. Selective programs include activities targeted to individuals or a subgroup of a population whose risk of developing a disorder is significantly higher than average. Surveys were administered to individuals in both types of programs.

To measure the baseline risk perception of the participating youth, a pre-test survey was administered at the start of the program being evaluated. A post-test survey was then administered to the same individuals upon completion of the program. Results from both the pre- and post-test surveys were aggregated by the participating provider agencies and submitted to their PIHP Region Lead. The PIHP Region Lead then combined survey results from all the participating provider agencies in their specific region and submitted them to MPHI for analysis. All data was submitted on a quarterly basis.

Results

A total of 3,955 surveys were completed by participants. Of those, 9% (n=356) were participants of unknown age or 18 and older (See Table 1).

**TABLE 1. AGE OF SURVEY PARTICIPANTS BY REGION**

Region/PIHP	Unknown age	Age 17 or below	Age 18-20	Age 21 or above	Total
Total	**10**	**3599**	**147**	**199**	**3955**
3. Lakeshore Regional Entity	0	142	14	0	**156**
5. Mid-State Health Network	0	363	94	91	**548**
6. CMH Partnership of Southeast MI	1	420	14	0	**435**
7. Detroit Wayne Mental Health Authority	8	1237	17	50	**1312**
8. Oakland County CMH Authority	0	0	0	22	**22**
9. Macomb County CMH Services	1	1437	8	36	**1482**

A detailed analysis by region was completed for youth participants aged 17 or younger only. Adult participant results are summarized at the state level.

Youth Perception of Risk

Youth receiving selective or indicated prevention interventions (hereafter referred as youth) were asked to determine how much they think people risk harming themselves (physically or in other ways) if they use addictive substances (See Appendix 1: Q1-Q7). Each question asked this for different individual substances. Youth were asked to answer these questions by marking their answers on a scale rating with the following options: no risk, slight risk, moderate risk, great risk, or cannot say/drug unfamiliar. The percent of youth who perceived high risk (i.e., moderate, or great risk) from addictive substances use are summarized below. Overall, youth perception of risk increased from pre- to post-test for all substances at the state level (See Figures A-G). The percent of youth with high-risk perception (those that marked moderate or great risk) in a few of the selective populations by region decreased from pre- to post-test but that could likely be due to decreased number of participants completing the post-test as compared to the pre-test (See Tables 2-8).

FIGURE A. PERCENTAGE OF YOUTH WHO PERCEIVED HIGH RISK FROM SMOKING ONE OR MORE PACKS OF CIGARETTES A DAY
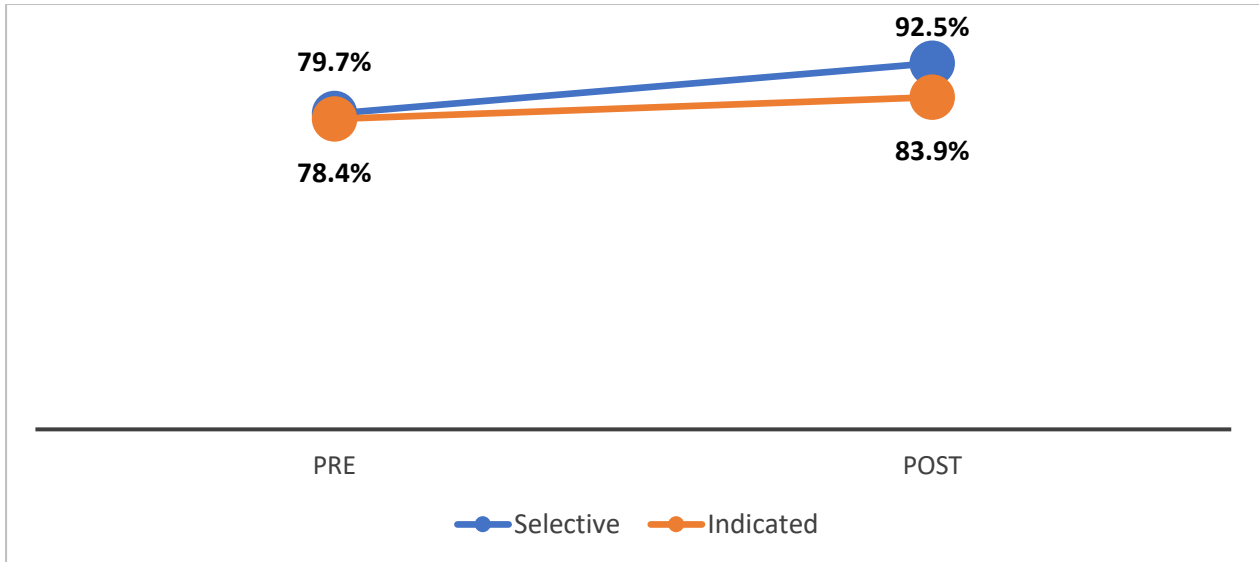
TABLE 2. TOTAL NUMBER OF YOUTH WHO PERCEIVED HIGH RISK FROM SMOKING ONE OR MORE PACKS OF CIGARETTES A DAY - BY REGION

Region/PIHP	Population and survey implemented	High risk perception	
		Yes	No
Total	Selective-Pre	1675	426
		79.7%	20.3%
	Selective-Post	1288	105
		92.5%	7.5%
	Indicated-Pre	58	16
		78.4%	21.6%
	Indicated-Post	26	5
		83.9%	16.1%
3. Lakeshore Regional Entity	Selective-Pre	82	11
		88.2%	11.8%
	Selective-Post	41	8
		83.7%	16.3%

Region/PIHP	Population and survey implemented	High risk perception	
		Yes	No
5. Mid-State Health Network	Selective-Pre	173	24
		87.8%	12.2%
	Selective-Post	86	26
		76.8%	23.2%
	Indicated-Pre	28	10
		73.7%	26.3%
	Indicated-Post	14	2
		87.5%	12.5%
6. CMH Partnership of Southeast MI	Selective-Pre	221	71
		75.7%	24.3%
	Selective-Post	81	11
		88.0%	12.0%
	Indicated-Pre	27	4
		87.1%	12.9%
	Indicated-Post	5	0
		100.0%	0.0%
7. Detroit Wayne Integrated Health Network	Selective-Pre	805	204
		79.8%	20.2%
	Selective-Post	197	31
		86.4%	13.6%
9. Macomb County CMH Services	Selective-Pre	394	116
		77.3%	22.7%
	Selective-Post	883	29
		96.8%	3.2%
	Indicated-Pre	3	2
		60.0%	40.0%
	Indicated-Post	7	3
		70.0%	30.0%

Figure B. Percentage of youth who perceived high risk from drinking 1 to 2 alcoholic beverage(s) nearly every day
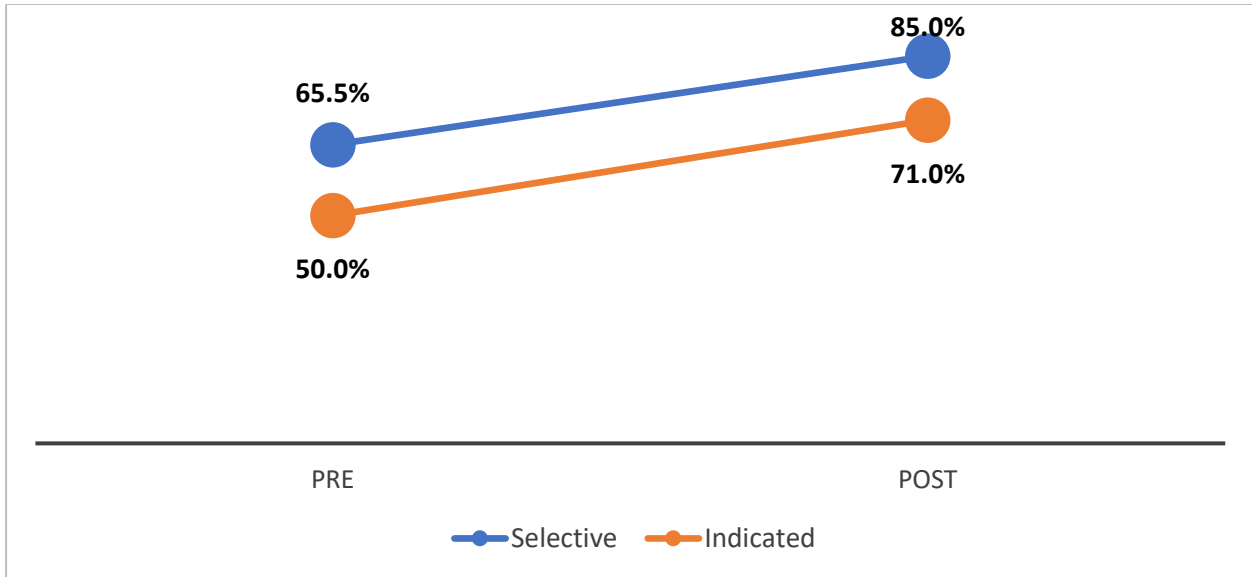
Table 3. Total number of youth who perceived high risk from drinking 1 to 2 alcoholic beverage(s) nearly every day - by region

Region/PIHP	Population and survey implemented	High risk perception	
		Yes	No
Total	Selective-Pre	1377	724
		65.5%	34.5%
	Selective-Post	1184	209
		85.0%	15.0%
	Indicated-Pre	37	37
		50.0%	50.0%
	Indicated-Post	22	9
		71.0%	29.0%
3. Lakeshore Regional Entity	Selective-Pre	65	28
		69.9%	30.1%
	Selective-Post	33	16
		67.3%	32.7%

Region/PIHP	Population and survey implemented	High risk perception	
		Yes	No
5. Mid-State Health Network	Selective-Pre	133	64
		67.5%	32.5%
	Selective-Post	71	41
		63.4%	36.6%
	Indicated-Pre	19	19
		50.0%	50.0%
	Indicated-Post	14	2
		87.5%	12.5%
6. CMH Partnership of Southeast MI	Selective-Pre	174	118
		59.6%	40.4%
	Selective-Post	69	23
		75.0%	25.0%
	Indicated-Pre	15	16
		48.4%	51.6%
	Indicated-Post	3	2
		60.0%	40.0%
7. Detroit Wayne Integrated Health Network	Selective-Pre	669	340
		66.3%	33.7%
	Selective-Post	166	62
		72.8%	27.2%
9. Macomb County CMH Services	Selective-Pre	336	174
		65.9%	34.1%
	Selective-Post	845	67
		92.7%	7.3%
	Indicated-Pre	3	2
		60.0%	40.0%
	Indicated-Post	5	5
		50.0%	50.0%

FIGURE C. PERCENTAGE OF YOUTH WHO PERCEIVED HIGH RISK FROM HAVING 5 OR MORE DRINKS ONCE OR TWICE EACH WEEKEND
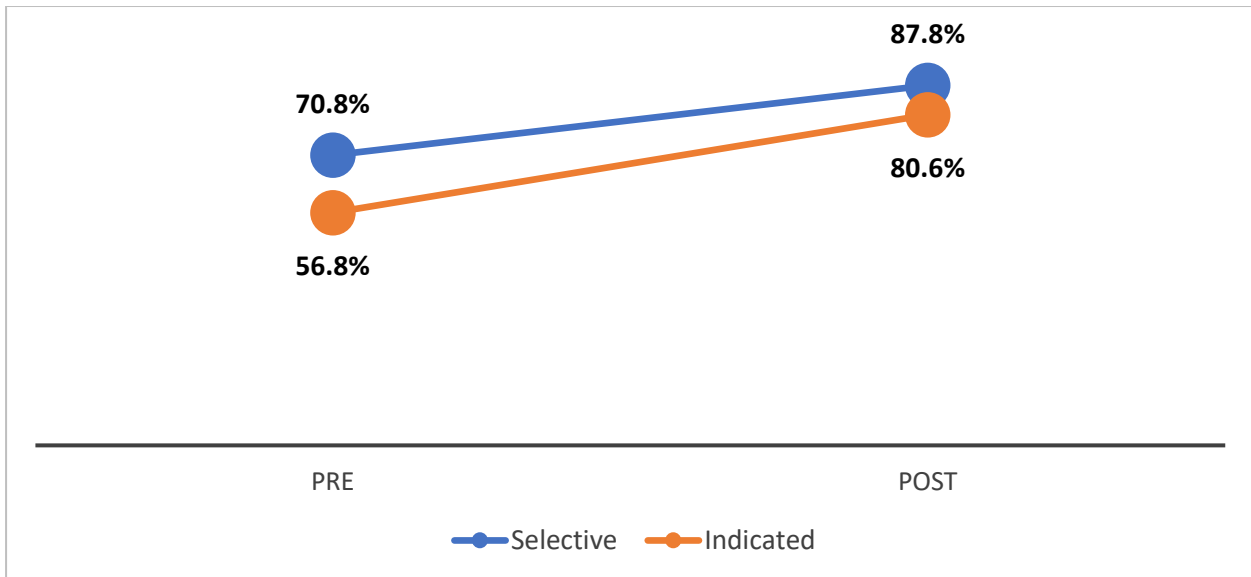
TABLE 4. TOTAL NUMBER OF YOUTH WHO PERCEIVED HIGH RISK FROM HAVING 5 OR MORE DRINKS ONCE OR TWICE EACH WEEKEND - BY REGION

Region/PIHP	Population and survey implemented	High risk perception	
		Yes	No
Total	Selective-Pre	1487	614
		70.8%	29.2%
	Selective-Post	1223	170
		87.8%	12.2%
	Indicated-Pre	42	32
		56.8%	43.2%
	Indicated-Post	25	6
		80.6%	19.4%
3. Lakeshore Regional Entity	Selective-Pre	72	21
		77.4%	22.6%
	Selective-Post	33	16
		67.3%	32.7%

Region/PIHP	Population and survey implemented	High risk perception	
		Yes	No
5. Mid-State Health Network	Selective-Pre	144	53
		73.1%	26.9%
	Selective-Post	75	37
		67.0%	33.0%
	Indicated-Pre	22	16
		57.9%	42.1%
	Indicated-Post	13	3
		81.3%	18.8%
6. CMH Partnership of Southeast MI	Selective-Pre	195	97
		66.8%	33.2%
	Selective-Post	77	15
		83.7%	16.3%
	Indicated-Pre	17	14
		54.8%	45.2%
	Indicated-Post	5	0
		100.0%	0.0%
7. Detroit Wayne Integrated Health Network	Selective-Pre	710	299
		70.4%	29.6%
	Selective-Post	169	59
		74.1%	25.9%
9. Macomb County CMH Services	Selective-Pre	366	144
		71.8%	28.2%
	Selective-Post	869	43
		95.3%	4.7%
	Indicated-Pre	3	2
		60.0%	40.0%
	Indicated-Post	7	3
		70.0%	30.0%

FIGURE D. PERCENTAGE OF YOUTH WHO PERCEIVED HIGH RISK FROM USING MARIJUANA ONCE OR TWICE PER WEEK
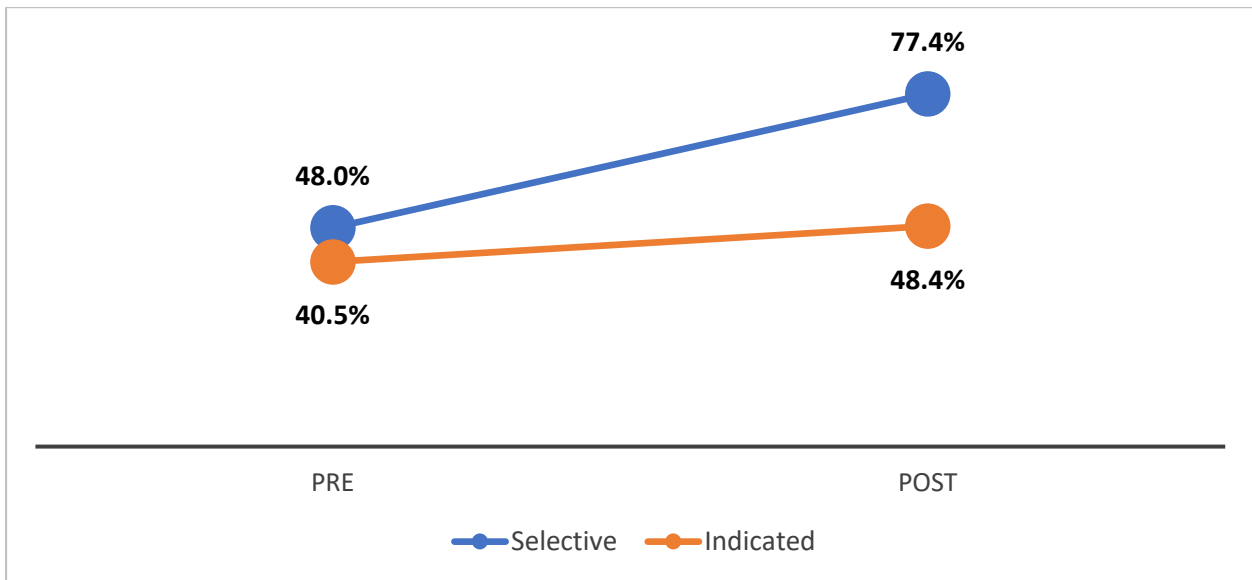

TABLE 5. TOTAL NUMBER OF YOUTH WHO PERCEIVED HIGH RISK FROM USING MARIJUANA ONCE OR TWICE PER WEEK - BY REGION

Region/PIHP	Population and survey implemented	High risk perception	
		Yes	**No**
Total	Selective-Pre	1009	1092
		48.0%	52.0%
	Selective-Post	1078	315
		77.4%	22.6%
	Indicated-Pre	30	44
		40.5%	59.5%
	Indicated-Post	15	16
		48.4%	51.6%
3. Lakeshore Regional Entity	Selective-Pre	21	72
		22.6%	77.4%
	Selective-Post	19	30
		38.8%	61.2%

Region/PIHP	Population and survey implemented	High risk perception	
		Yes	No
5. Mid-State Health Network	Selective-Pre	102	95
		51.8%	48.2%
	Selective-Post	57	55
		50.9%	49.1%
	Indicated-Pre	19	19
		50.0%	50.0%
	Indicated-Post	11	5
		68.8%	31.3%
6. CMH Partnership of Southeast MI	Selective-Pre	122	170
		41.8%	58.2%
	Selective-Post	56	36
		60.9%	39.1%
	Indicated-Pre	7	24
		22.6%	77.4%
	Indicated-Post	2	3
		40.0%	60.0%
7. Detroit Wayne Integrated Health Network	Selective-Pre	464	545
		46.0%	54.0%
	Selective-Post	120	108
		52.6%	47.4%
9. Macomb County CMH Services	Selective-Pre	300	210
		58.8%	41.2%
	Selective-Post	826	86
		90.6%	9.4%
	Indicated-Pre	4	1
		80.0%	20.0%
	Indicated-Post	2	8
		20.0%	80.0%

FIGURE E. PERCENTAGE OF YOUTH WHO PERCEIVED HIGH RISK FROM USING PRESCRIPTION DRUGS THAT ARE NOT PRESCRIBED TO THEM
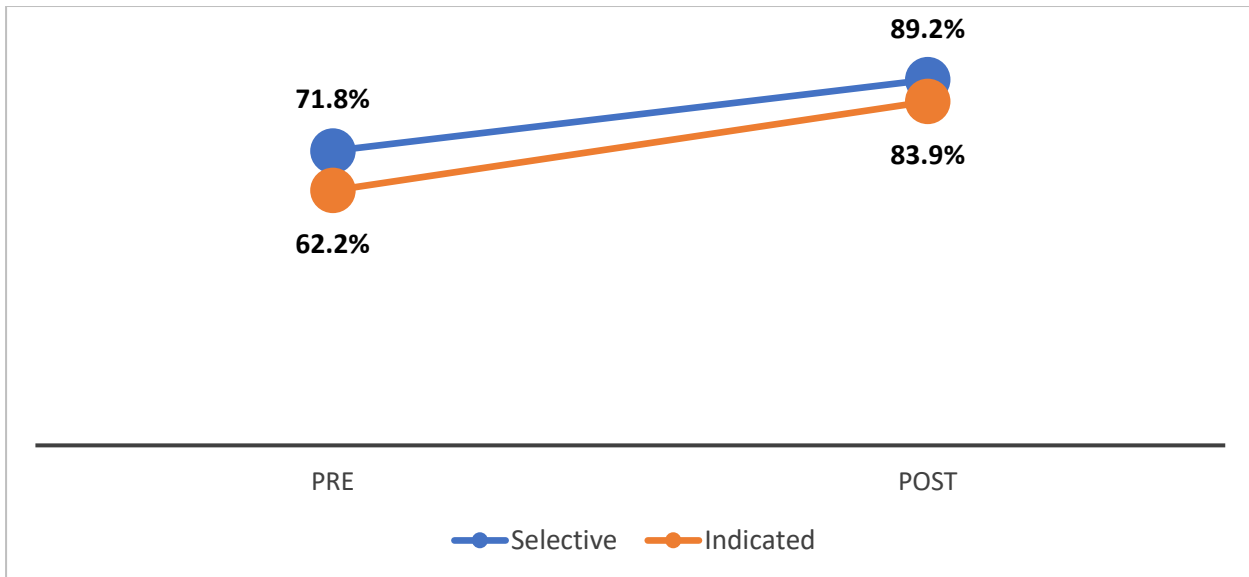
TABLE 6. TOTAL NUMBER OF YOUTH WHO PERCEIVED HIGH RISK FROM USING PRESCRIPTION DRUGS THAT ARE NOT PRESCRIBED TO THEM - BY REGION

Region/PIHP	Population and survey implemented	High risk perception	
		Yes	**No**
Total	Selective-Pre	1509	592
		71.8%	28.2%
	Selective-Post	1242	151
		89.2%	10.8%
	Indicated-Pre	46	28
		62.2%	37.8%
	Indicated-Post	26	5
		83.9%	16.1%
3. Lakeshore Regional Entity	Selective-Pre	69	24
		74.2%	25.8%
	Selective-Post	40	9
		81.6%	18.4%

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Region/PIHP	Population and survey implemented	High risk perception	
		Yes	No
5. Mid-State Health Network	Selective-Pre	163	34
		82.7%	17.3%
	Selective-Post	80	32
		71.4%	28.6%
	Indicated-Pre	23	15
		60.5%	39.5%
	Indicated-Post	14	2
		87.5%	12.5%
6. CMH Partnership of Southeast MI	Selective-Pre	193	99
		66.1%	33.9%
	Selective-Post	69	23
		75.0%	25.0%
	Indicated-Pre	20	11
		64.5%	35.5%
	Indicated-Post	5	0
		100.0%	0.0%
7. Detroit Wayne Integrated Health Network	Selective-Pre	713	296
		70.7%	29.3%
	Selective-Post	193	35
		84.6%	15.4%
9. Macomb County CMH Services	Selective-Pre	371	139
		72.7%	27.3%
	Selective-Post	860	52
		94.3%	5.7%
	Indicated-Pre	3	2
		60.0%	40.0%
	Indicated-Post	7	3
		70.0%	30.0%

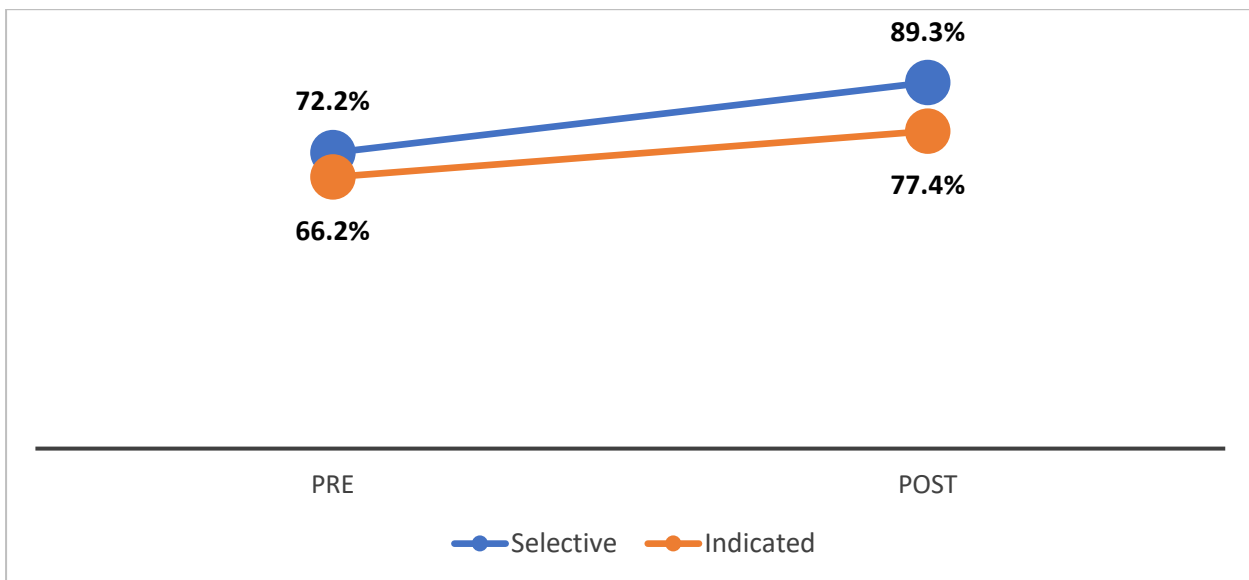**FIGURE F. PERCENTAGE OF YOUTH WHO PERCEIVED HIGH RISK FROM USING PAINKILLERS NOT PRESCRIBED TO THEM**

TABLE 7. TOTAL NUMBER OF YOUTH WHO PERCEIVED HIGH RISK FROM USING PAINKILLERS NOT PRESCRIBED TO THEM - BY REGION

Region/PIHP	Population and survey implemented	High risk perception	
		Yes	No
Total	Selective-Pre	1516	585
		72.2%	27.8%
	Selective-Post	1244	149
		89.3%	10.7%
	Indicated-Pre	49	25
		66.2%	33.8%
	Indicated-Post	24	7
		77.4%	22.6%
3. Lakeshore Regional Entity	Selective-Pre	71	22
		76.3%	23.7%
	Selective-Post	39	10
		79.6%	20.4%

Region/PIHP	Population and survey implemented	High risk perception	
		Yes	No
5. Mid-State Health Network	Selective-Pre	165	32
		83.8%	16.2%
	Selective-Post	78	34
		69.6%	30.4%
	Indicated-Pre	22	16
		57.9%	42.1%
	Indicated-Post	13	3
		81.3%	18.8%
6. CMH Partnership of Southeast MI	Selective-Pre	200	92
		68.5%	31.5%
	Selective-Post	71	21
		77.2%	22.8%
	Indicated-Pre	23	8
		74.2%	25.8%
	Indicated-Post	5	0
		100.0%	0.0%
7. Detroit Wayne Integrated Health Network	Selective-Pre	713	296
		70.7%	29.3%
	Selective-Post	193	35
		84.6%	15.4%
9. Macomb County CMH Services	Selective-Pre	367	143
		72.0%	28.0%
	Selective-Post	863	49
		94.6%	5.4%
	Indicated-Pre	4	1
		80.0%	20.0%
	Indicated-Post	6	4
		60.0%	40.0%

Figure G. Percentage of youth who perceived high risk from using electronic vapor products nearly every day
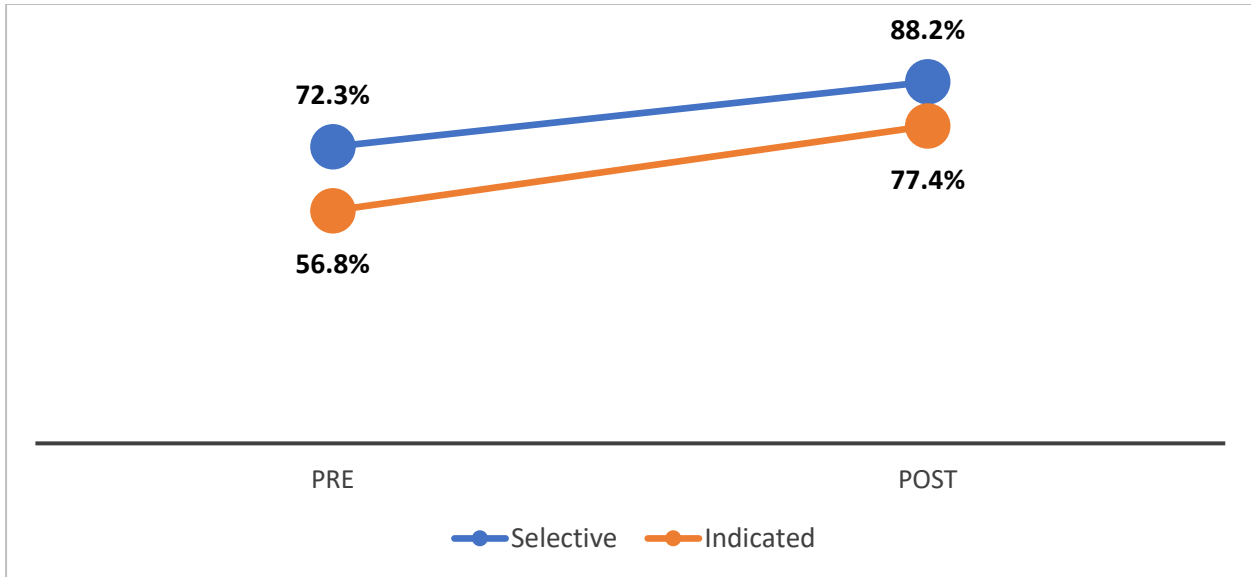
Table 8. Total number of youth who perceived high risk from using electronic vapor products nearly every day – by region

Region/PIHP	Population and survey implemented	High risk perception	
		Yes	**No**
Total	Selective-Pre	1520	581
		72.3%	27.7%
	Selective-Post	1228	165
		88.2%	11.8%
	Indicated-Pre	42	32
		56.8%	43.2%
	Indicated-Post	24	7
		77.4%	22.6%
3. Lakeshore Regional Entity	Selective-Pre	60	33
		64.5%	35.5%
	Selective-Post	31	18
		63.3%	36.7%

Region/PIHP	Population and survey implemented	High risk perception	
		Yes	**No**
5. Mid-State Health Network	Selective-Pre	160	37
		81.2%	18.8%
	Selective-Post	79	33
		70.5%	29.5%
	Indicated-Pre	21	17
		55.3%	44.7%
	Indicated-Post	13	3
		81.3%	18.8%
6. CMH Partnership of Southeast MI	Selective-Pre	201	91
		68.8%	31.2%
	Selective-Post	75	17
		81.5%	18.5%
	Indicated-Pre	18	13
		58.1%	41.9%
	Indicated-Post	4	1
		80.0%	20.0%
7. Detroit Wayne Integrated Health Network	Selective-Pre	717	292
		71.1%	28.9%
	Selective-Post	186	42
		81.6%	18.4%
9. Macomb County CMH Services	Selective-Pre	382	128
		74.9%	25.1%
	Selective-Post	857	55
		94.0%	6.0%
	Indicated-Pre	3	2
		60.0%	40.0%
	Indicated-Post	7	3
		70.0%	30.0%

Youth Average Risk Perceptions of Substance Use

Average risk perception across youth was calculated from responses with 0 indicating "no risk", 1 indicating "slight risk", 2 indicating "moderate risk", and 3 indicating "great risk." Participants who selected "can't say/drug unfamiliar" were excluded from analysis. Average risk perception of harm for all substances increased overall from pre- to post-test but the increases were not statistically significant (See Figures H-N). Additionally, for selective populations in a few regions the mean risk perception decreased from pre- to post-test again likely due the decreased number of youth completing post-tests (See Tables 9-15).

FIGURE H. MEAN DAILY CIGARETTE SMOKING RISK PERCEPTION
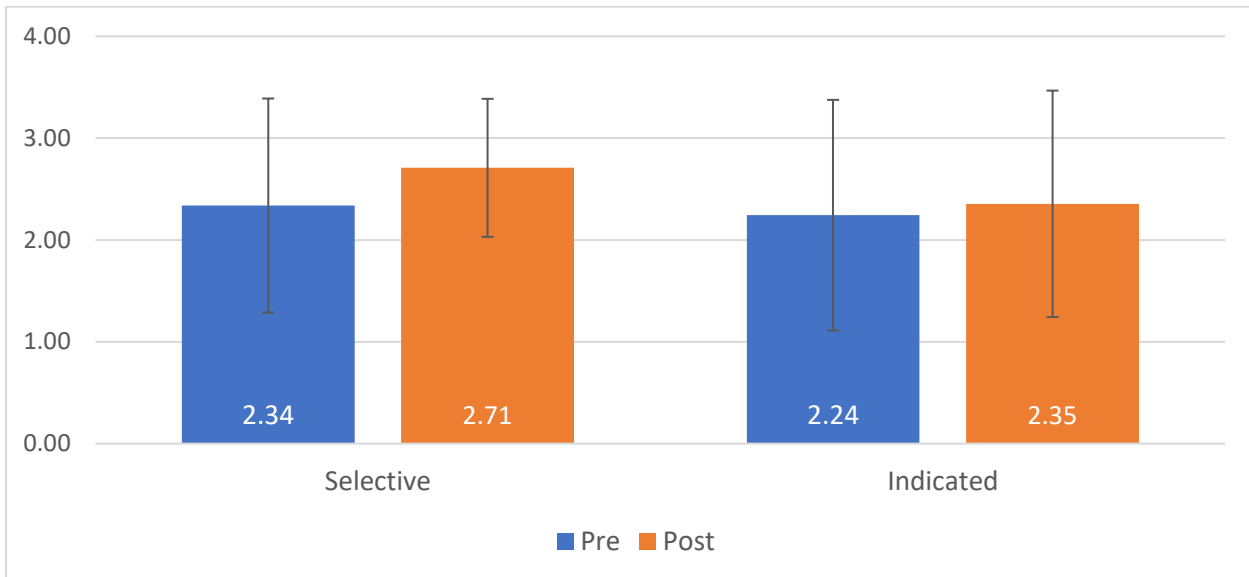
TABLE 9. MEAN DAILY CIGARETTE SMOKING RISK PERCEPTION BY REGION

Region/PIHP	Population and survey implemented	Daily cigarette smoking risk perception	
		Mean	**Standard Deviation**
Total	Selective-Pre	2.34	1.05
	Selective-Post	2.71	0.68
	Indicated-Pre	2.24	1.13
	Indicated-Post	2.35	1.11
3. Lakeshore Regional Entity	Selective-Pre	2.48	0.94
	Selective-Post	2.43	1.00

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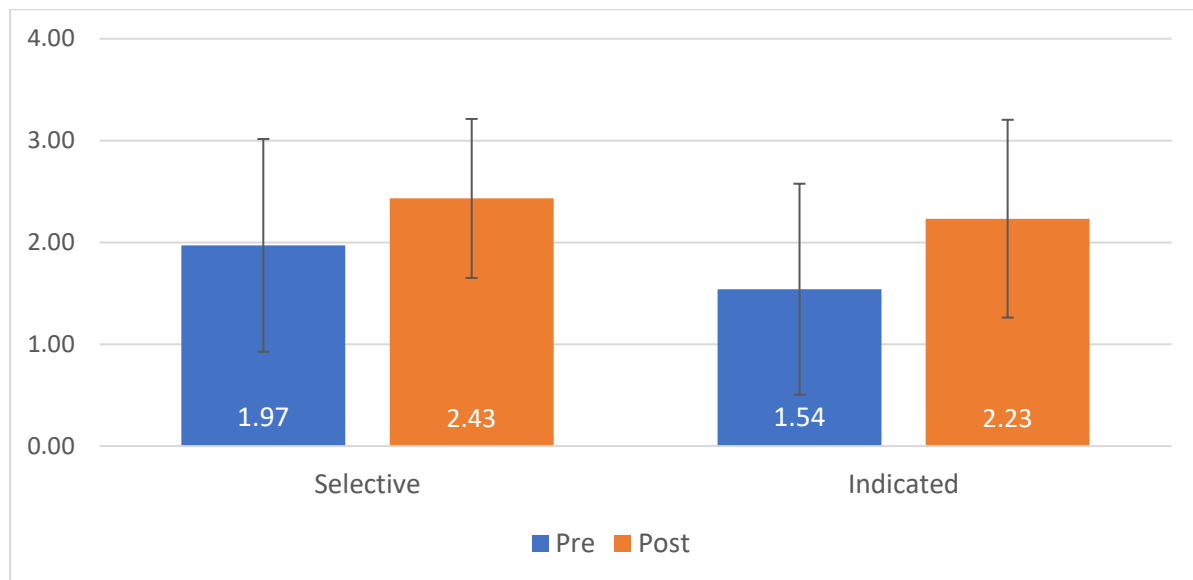| Region/PIHP	Population and survey implemented	Daily cigarette smoking risk perception	
		Mean	Standard Deviation
5. Mid-State Health Network	Selective-Pre	2.52	0.85
	Selective-Post	2.27	1.20
	Indicated-Pre	2.11	1.23
	Indicated-Post	2.56	1.03
6. CMH Partnership of Southeast MI	Selective-Pre	2.15	1.13
	Selective-Post	2.53	0.81
	Indicated-Pre	2.48	0.96
	Indicated-Post	2.80	0.45
7. Detroit Wayne Integrated Health Network	Selective-Pre	2.37	1.03
	Selective-Post	2.52	0.85
9. Macomb County CMH Services	Selective-Pre	2.28	1.12
	Selective-Post	2.84	0.41
	Indicated-Pre	1.80	1.30
	Indicated-Post	1.80	1.32

FIGURE I. MEAN DAILY ALCOHOL USE RISK PERCEPTION
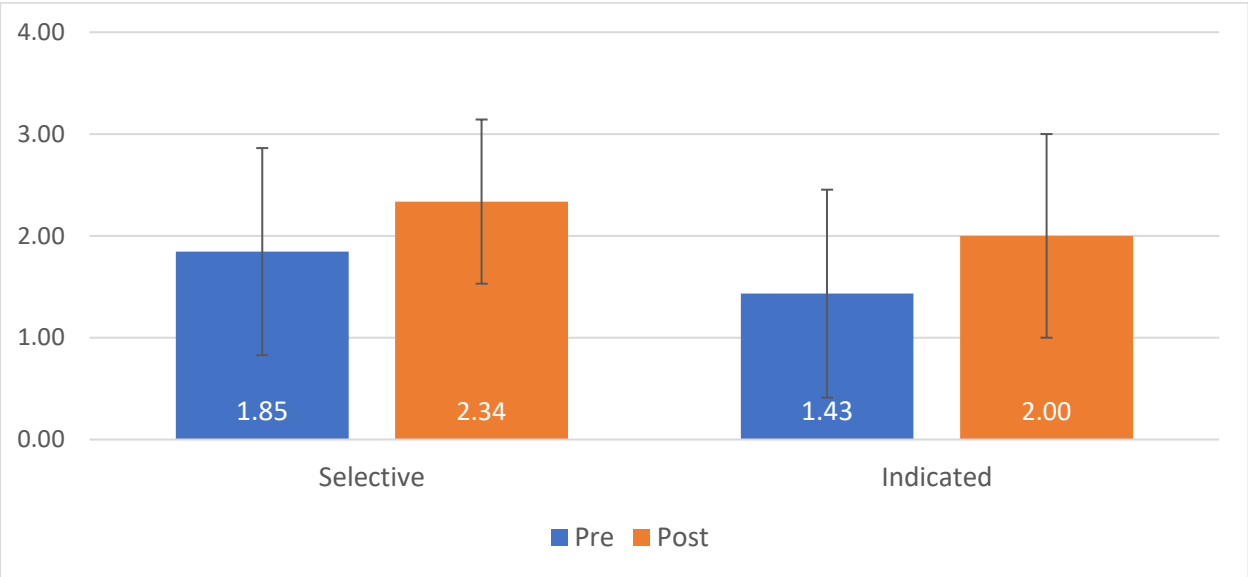
TABLE 10. MEAN DAILY ALCOHOL USE RISK PERCEPTION BY REGION

Region/PIHP	Population and survey implemented	Daily alcohol use risk perception	
		Mean	Standard Deviation
Total	Selective-Pre	1.85	1.02
	Selective-Post	2.34	0.81
	Indicated-Pre	1.43	1.02
	Indicated-Post	2.00	1.00
3. Lakeshore Regional Entity	Selective-Pre	1.95	0.93
	Selective-Post	1.92	1.04
5. Mid-State Health Network	Selective-Pre	1.83	0.88
	Selective-Post	1.79	1.06
	Indicated-Pre	1.32	1.07
	Indicated-Post	2.19	0.98
6. CMH Partnership of Southeast MI	Selective-Pre	1.68	1.02
	Selective-Post	2.02	0.88
	Indicated-Pre	1.52	0.93
	Indicated-Post	1.80	0.84
7. Detroit Wayne Integrated Health Network	Selective-Pre	1.87	1.01
	Selective-Post	2.00	0.90
9. Macomb County CMH Services	Selective-Pre	1.87	1.09
	Selective-Post	2.54	0.63
	Indicated-Pre	1.80	1.30
	Indicated-Post	1.80	1.14

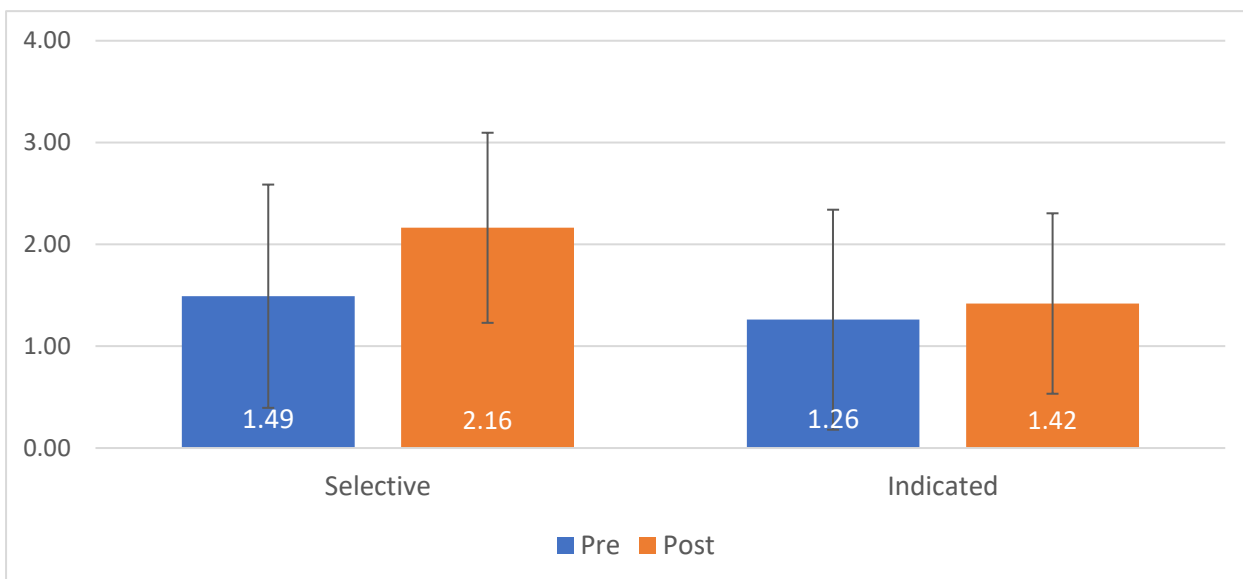**FIGURE J. MEAN BINGE ALCOHOL USE RISK PERCEPTION**

TABLE 11. MEAN BINGE ALCOHOL USE RISK PERCEPTION BY REGION

Region/PIHP	Population and survey implemented	Binge alcohol use risk perception Mean	Standard Deviation
Total	Selective-Pre	1.97	1.04
	Selective-Post	2.43	0.78
	Indicated-Pre	1.54	1.04
	Indicated-Post	2.23	0.97
3. Lakeshore Regional Entity	Selective-Pre	2.12	1.00
	Selective-Post	1.88	1.05
5. Mid-State Health Network	Selective-Pre	2.05	0.91
	Selective-Post	1.82	1.08
	Indicated-Pre	1.47	1.16
	Indicated-Post	2.33	1.05
6. CMH Partnership of Southeast MI	Selective-Pre	1.78	1.05
	Selective-Post	2.29	0.89
	Indicated-Pre	1.58	0.85
	Indicated-Post	2.40	0.55
7. Detroit Wayne Integrated Health Network	Selective-Pre	2.00	1.05
	Selective-Post	2.11	0.92

Region/PIHP	Population and survey implemented	Binge alcohol use risk perception	
		Mean	Standard Deviation
9. Macomb County CMH Services	Selective-Pre	1.97	1.08
	Selective-Post	2.63	0.56
	Indicated-Pre	1.80	1.30
	Indicated-Post	2.00	1.05

FIGURE K. MEAN WEEKLY MARIJUANA USE RISK PERCEPTION

TABLE 12. MEAN WEEKLY MARIJUANA USE RISK PERCEPTION BY REGION

Region/PIHP	Population and survey implemented	Weekly marijuana use risk perception	
		Mean	Standard Deviation
Total	Selective-Pre	1.49	1.10
	Selective-Post	2.16	0.93
	Indicated-Pre	1.26	1.08
	Indicated-Post	1.42	0.89
3. Lakeshore Regional Entity	Selective-Pre	1.01	1.01
	Selective-Post	1.33	1.05

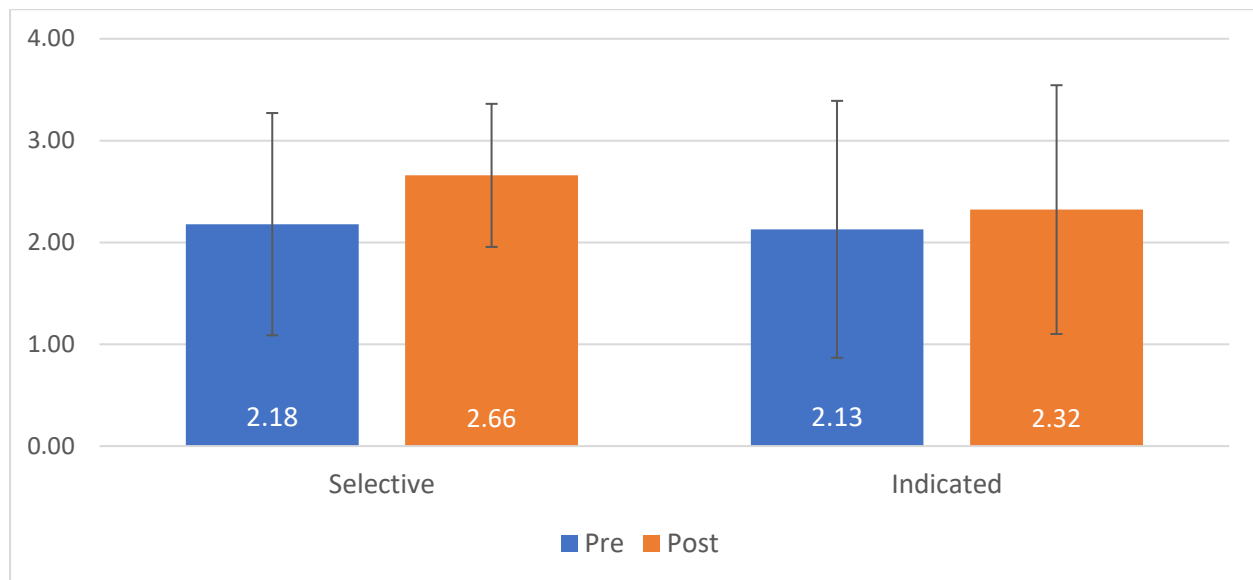| Region/PIHP	Population and survey implemented	Weekly marijuana use risk perception	
		Mean	Standard Deviation
5. Mid-State Health Network	Selective-Pre	1.57	1.07
	Selective-Post	1.49	1.10
	Indicated-Pre	1.47	1.13
	Indicated-Post	1.63	0.81
6. CMH Partnership of Southeast MI	Selective-Pre	1.36	1.08
	Selective-Post	1.71	1.00
	Indicated-Pre	0.90	0.92
	Indicated-Post	1.40	0.55
7. Detroit Wayne Integrated Health Network	Selective-Pre	1.45	1.12
	Selective-Post	1.52	0.99
9. Macomb County CMH Services	Selective-Pre	1.71	1.05
	Selective-Post	2.50	0.67
	Indicated-Pre	1.80	1.10
	Indicated-Post	1.10	1.10

FIGURE L. MEAN PRESCRIPTION DRUGS MISUSE RISK PERCEPTION
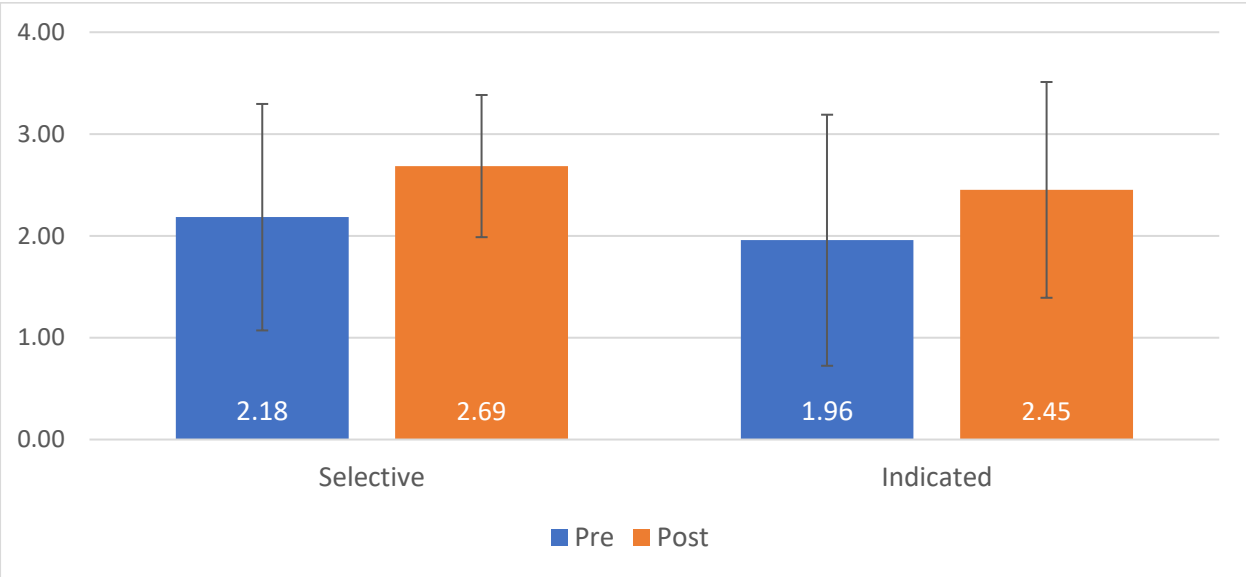
TABLE 13. MEAN PRESCRIPTION DRUGS MISUSE RISK PERCEPTION BY REGION

Region/PIHP	Population and survey implemented	Prescription drugs misuse risk perception	
		Mean	**Standard Deviation**
Total	Selective-Pre	2.18	1.11
	Selective-Post	2.69	0.70
	Indicated-Pre	1.96	1.23
	Indicated-Post	2.45	1.06
3. Lakeshore Regional Entity	Selective-Pre	2.25	1.06
	Selective-Post	2.43	0.95
5. Mid-State Health Network	Selective-Pre	2.42	0.91
	Selective-Post	2.18	1.20
	Indicated-Pre	1.81	1.33
	Indicated-Post	2.50	1.03
6. CMH Partnership of Southeast MI	Selective-Pre	2.02	1.16
	Selective-Post	2.31	0.92
	Indicated-Pre	2.13	1.11
	Indicated-Post	3.00	0.00
7. Detroit Wayne Integrated Health Network	Selective-Pre	2.17	1.12
	Selective-Post	2.54	0.86
9. Macomb County CMH Services	Selective-Pre	2.19	1.14
	Selective-Post	2.83	0.42
	Indicated-Pre	2.00	1.41
	Indicated-Post	2.10	1.29

FIGURE M. MEAN PAINKILLERS MISUSE RISK PERCEPTION

TABLE 14. MEAN PAINKILLERS MISUSE RISK PERCEPTION BY REGION

Region/PIHP	Population and survey implemented	Painkillers misuse risk perception Mean	Standard Deviation
Total	Selective-Pre	2.18	1.09
	Selective-Post	2.66	0.70
	Indicated-Pre	2.13	1.26
	Indicated-Post	2.32	1.22
3. Lakeshore Regional Entity	Selective-Pre	2.30	1.00
	Selective-Post	2.39	0.95
5. Mid-State Health Network	Selective-Pre	2.41	0.87
	Selective-Post	2.11	1.22
	Indicated-Pre	1.89	1.39
	Indicated-Post	2.50	1.10
6. CMH Partnership of Southeast MI	Selective-Pre	2.09	1.19
	Selective-Post	2.42	0.89
	Indicated-Pre	2.40	1.07
	Indicated-Post	3.00	0.00
7. Detroit Wayne Integrated Health Network	Selective-Pre	2.15	1.08
	Selective-Post	2.54	0.81

Region/PIHP	Population and survey implemented	Painkillers misuse risk perception	
		Mean	**Standard Deviation**
9. Macomb County CMH Services	Selective-Pre	2.18	1.13
	Selective-Post	2.79	0.47
	Indicated-Pre	2.20	1.30
	Indicated-Post	1.70	1.49

FIGURE N. MEAN DAILY VAPE PRODUCTS USE RISK PERCEPTION
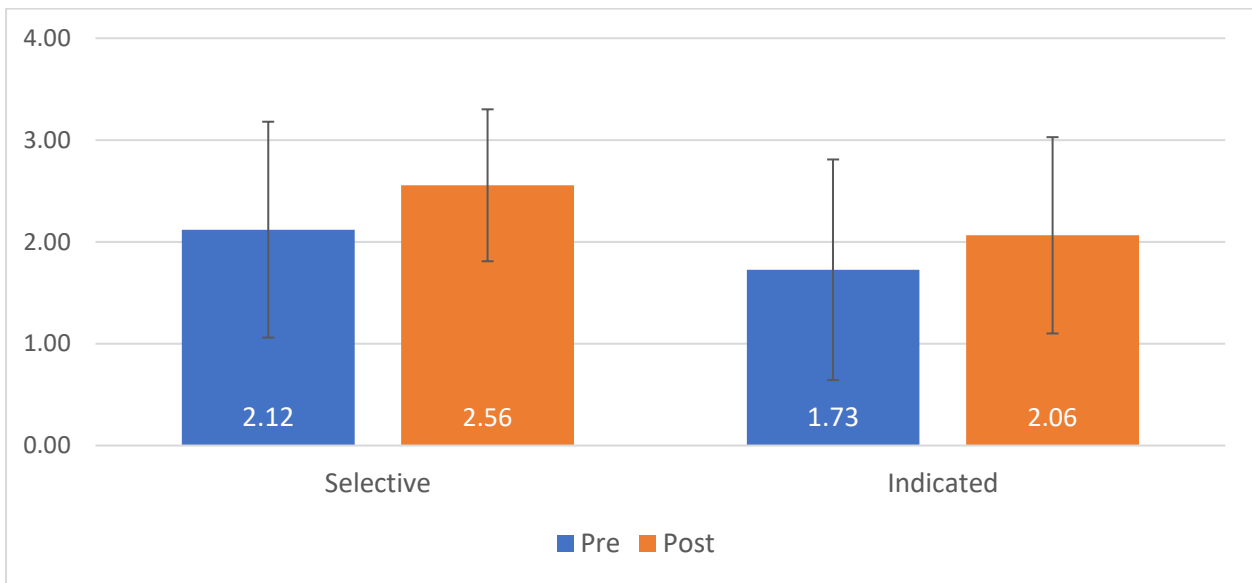
TABLE 15. MEAN DAILY VAPE PRODUCTS USE RISK PERCEPTION BY REGION

Region/PIHP	Population and survey implemented	Vape products use risk perception	
		Mean	**Standard Deviation**
Total	Selective-Pre	2.12	1.06
	Selective-Post	2.56	0.75
	Indicated-Pre	1.73	1.08
	Indicated-Post	2.06	0.96
3. Lakeshore Regional Entity	Selective-Pre	1.96	1.03
	Selective-Post	1.92	1.00

Region/PIHP	Population and survey implemented	Vape products use risk perception	
		Mean	**Standard Deviation**
5. Mid-State Health Network	Selective-Pre	2.25	0.91
	Selective-Post	2.05	1.16
	Indicated-Pre	1.73	1.10
	Indicated-Post	2.19	1.05
6. CMH Partnership of Southeast MI	Selective-Pre	1.98	1.04
	Selective-Post	2.30	0.91
	Indicated-Pre	1.71	1.07
	Indicated-Post	2.00	0.71
7. Detroit Wayne Integrated Health Network	Selective-Pre	2.12	1.08
	Selective-Post	2.36	0.87
9. Macomb County CMH Services	Selective-Pre	2.18	1.09
	Selective-Post	2.73	0.51
	Indicated-Pre	1.80	1.30
	Indicated-Post	1.90	0.99

Youth Self-Reported Substance Use

Youth were asked to respond to questions about which substances they have personally used or consumed in the past 30 days (See Appendix 1: Q8-Q14). Youth were asked to mark either "Yes" or "No" to each question which addressed a different individual substance.

Overall, self-reported use of substances in the past 30 days decreased from pre- to post-test with the exception of prescription drugs in the indicated population. The number of youth completing the post-test compared to the pre-test was noticeably fewer which may explain this increase in percentage from pre- to post-test (See Figures O-U). For a breakdown of self-reported use by region see Tables 16-22.

FIGURE O. SELF-REPORTED CIGARETTE USE IN THE PAST 30 DAYS
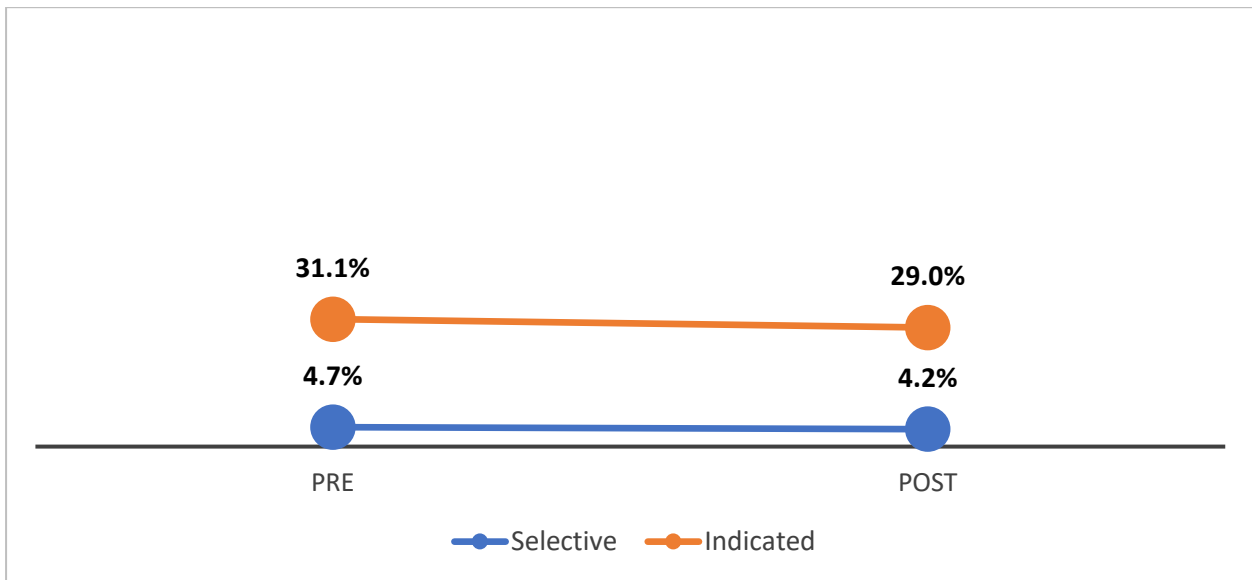
TABLE 16. SELF-REPORTED CIGARETTE USE IN THE PAST 30 DAYS BY REGION

Region/PIHP	Population and survey implemented	Cigarette use in the past 30 days	
		Yes	**No**
Total	Selective-Pre	99	1993
		4.7%	95.3%
	Selective-Post	59	1334
		4.2%	95.8%
	Indicated-Pre	23	51
		31.1%	68.9%
	Indicated-Post	9	22
		29.0%	71.0%
3. Lakeshore Regional Entity	Selective-Pre	11	82
		11.8%	88.2%
	Selective-Post	7	42
		14.3%	85.7%
5. Mid-State Health Network	Selective-Pre	14	182
		7.1%	92.9%
	Selective-Post	7	105
		6.3%	93.8%
	Indicated-Pre	8	30
		21.1%	78.9%
	Indicated-Post	1	15
		6.3%	93.8%

Region/PIHP	Population and survey implemented	Cigarette use in the past 30 days	
		Yes	No
6. CMH Partnership of Southeast MI	Selective-Pre	23	267
		7.9%	92.1%
	Selective-Post	3	89
		3.3%	96.7%
	Indicated-Pre	12	19
		38.7%	61.3%
	Indicated-Post	2	3
		40.0%	60.0%
7. Detroit Wayne Integrated Health Network	Selective-Pre	25	980
		2.5%	97.5%
	Selective-Post	5	223
		2.2%	97.8%
9. Macomb County CMH Services	Selective-Pre	26	482
		5.1%	94.9%
	Selective-Post	37	875
		4.1%	95.9%
	Indicated-Pre	3	2
		60.0%	40.0%
	Indicated-Post	6	4
		60.0%	40.0%

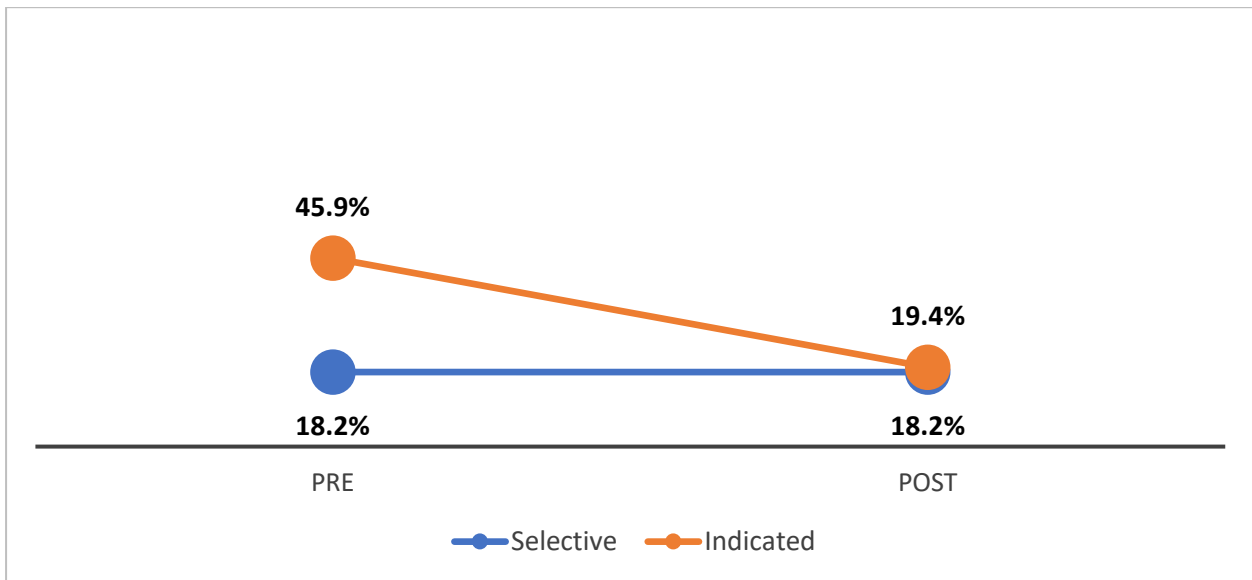**FIGURE P. SELF-REPORTED ALCOHOL USE IN THE PAST 30 DAYS**

TABLE 17. SELF-REPORTED ALCOHOL USE IN THE PAST 30 DAYS BY REGION

Region/PIHP	Population and survey implemented	Alcohol use in the past 30 days	
		Yes	No
Total	Selective-Pre	380	1711
		18.2%	81.8%
	Selective-Post	253	1140
		18.2%	81.8%
	Indicated-Pre	34	40
		45.9%	54.1%
	Indicated-Post	6	25
		19.4%	80.6%
3. Lakeshore Regional Entity	Selective-Pre	21	72
		22.6%	77.4%
	Selective-Post	13	36
		26.5%	73.5%

Region/PIHP	Population and survey implemented	Alcohol use in the past 30 days	
		Yes	No
5. Mid-State Health Network	Selective-Pre	52	144
		26.5%	73.5%
	Selective-Post	36	76
		32.1%	67.9%
	Indicated-Pre	14	24
		36.8%	63.2%
	Indicated-Post	2	14
		12.5%	87.5%
6. CMH Partnership of Southeast MI	Selective-Pre	70	220
		24.1%	75.9%
	Selective-Post	15	77
		16.3%	83.7%
	Indicated-Pre	19	12
		61.3%	38.7%
	Indicated-Post	1	4
		20.0%	80.0%
7. Detroit Wayne Integrated Health Network	Selective-Pre	140	865
		13.9%	86.1%
	Selective-Post	56	172
		24.6%	75.4%
9. Macomb County CMH Services	Selective-Pre	97	410
		19.1%	80.9%
	Selective-Post	133	779
		14.6%	85.4%
	Indicated-Pre	1	4
		20.0%	80.0%
	Indicated-Post	3	7
		30.0%	70.0%

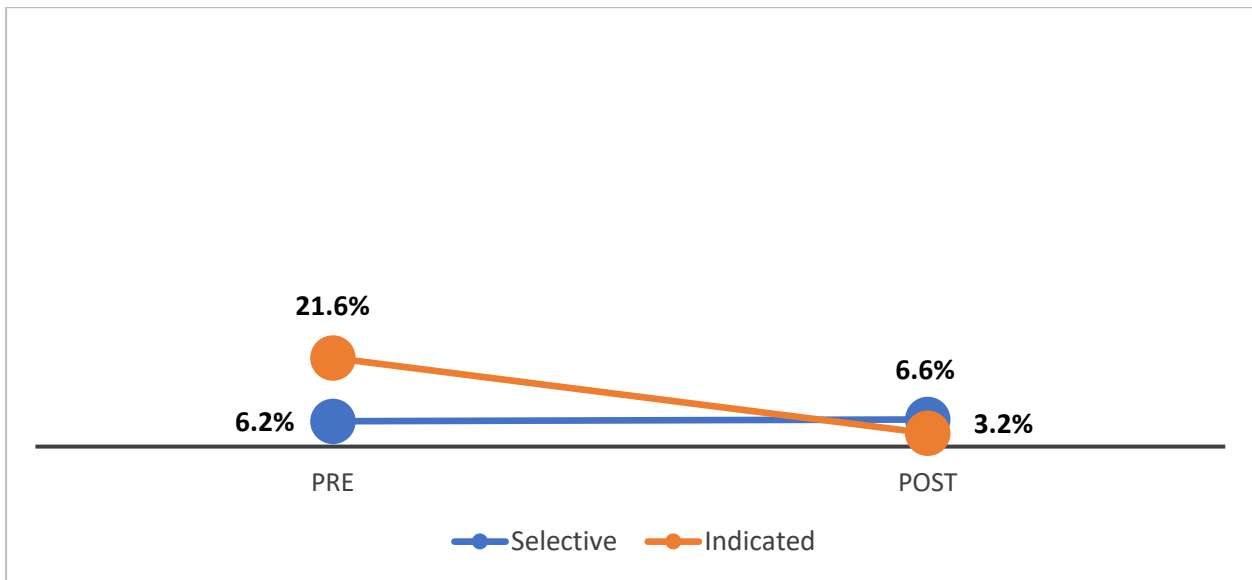**FIGURE Q. SELF-REPORTED BINGE ALCOHOL USE IN THE PAST 30 DAYS**

TABLE 18. SELF-REPORTED BINGE ALCOHOL USE IN THE PAST 30 DAYS BY REGION

Region/PIHP	Population and survey implemented	Binge alcohol use in the past 30 days	
		Yes	No
Total	Selective-Pre	129	1959
		6.2%	93.8%
	Selective-Post	92	1301
		6.6%	93.4%
	Indicated-Pre	16	58
		21.6%	78.4%
	Indicated-Post	1	30
		3.2%	96.8%
3. Lakeshore Regional Entity	Selective-Pre	6	84
		6.7%	93.3%
	Selective-Post	7	42
		14.3%	85.7%

Region/PIHP	Population and survey implemented	Binge alcohol use in the past 30 days	
		Yes	No
5. Mid-State Health Network	Selective-Pre	20	176
		10.2%	89.8%
	Selective-Post	13	99
		11.6%	88.4%
	Indicated-Pre	6	32
		15.8%	84.2%
	Indicated-Post	1	15
		6.3%	93.8%
6. CMH Partnership of Southeast MI	Selective-Pre	19	271
		6.6%	93.4%
	Selective-Post	2	90
		2.2%	97.8%
	Indicated-Pre	10	21
		32.3%	67.7%
	Indicated-Post	0	5
		0.0%	100.0%
7. Detroit Wayne Integrated Health Network	Selective-Pre	50	953
		5.0%	95.0%
	Selective-Post	21	207
		9.2%	90.8%
9. Macomb County CMH Services	Selective-Pre	34	475
		6.7%	93.3%
	Selective-Post	49	863
		5.4%	94.6%
	Indicated-Pre	0	5
		0.0%	100.0%
	Indicated-Post	0	10
		0.0%	100.0%

FIGURE R. SELF-REPORTED MARIJUANA USE IN THE PAST 30 DAYS

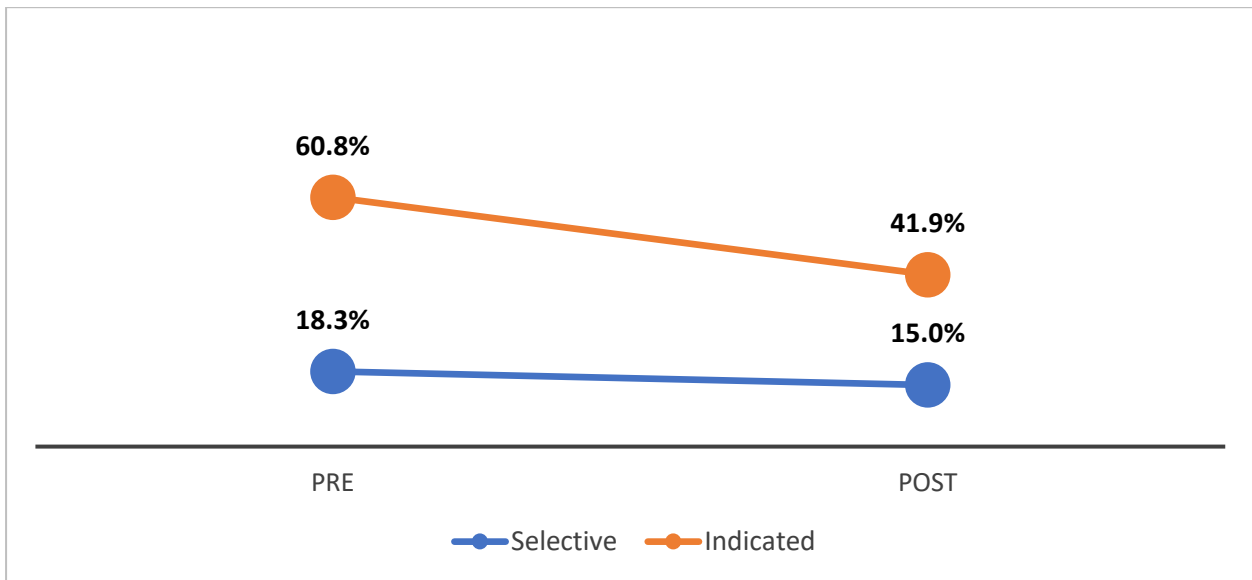

TABLE 19. SELF-REPORTED MARIJUANA USE IN THE PAST 30 DAYS BY REGION

Region/PIHP	Population and survey implemented	Marijuana use in the past 30 days	
		Yes	No
Total	Selective-Pre	382	1703
		18.3%	81.7%
	Selective-Post	209	1183
		15.0%	85.0%
	Indicated-Pre	45	29
		60.8%	39.2%
	Indicated-Post	13	18
		41.9%	58.1%
3. Lakeshore Regional Entity	Selective-Pre	37	54
		40.7%	59.3%
	Selective-Post	15	34
		30.6%	69.4%

Region/PIHP	Population and survey implemented	Marijuana use in the past 30 days	
		Yes	No
5. Mid-State Health Network	Selective-Pre	42	153
		21.5%	78.5%
	Selective-Post	25	87
		22.3%	77.7%
	Indicated-Pre	21	17
		55.3%	44.7%
	Indicated-Post	5	11
		31.3%	68.8%
6. CMH Partnership of Southeast MI	Selective-Pre	82	207
		28.4%	71.6%
	Selective-Post	11	81
		12.0%	88.0%
	Indicated-Pre	24	7
		77.4%	22.6%
	Indicated-Post	3	2
		60.0%	40.0%
7. Detroit Wayne Integrated Health Network	Selective-Pre	142	860
		14.2%	85.8%
	Selective-Post	46	182
		20.2%	79.8%
9. Macomb County CMH Services	Selective-Pre	79	429
		15.6%	84.4%
	Selective-Post	112	799
		12.3%	87.7%
	Indicated-Pre	0	5
		0.0%	100.0%
	Indicated-Post	5	5
		50.0%	50.0%

FIGURE S. SELF-REPORTED PRESCRIPTION DRUG MISUSE IN THE PAST 30 DAYS
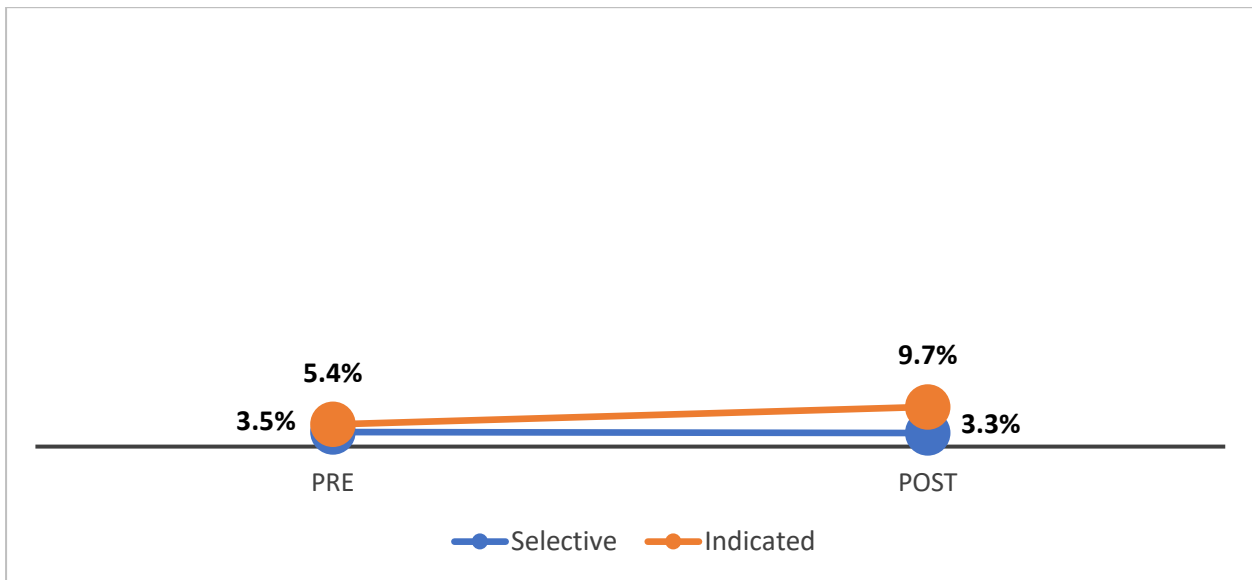
TABLE 20. SELF-REPORTED PRESCRIPTION DRUG MISUSE IN THE PAST 30 DAYS BY REGION

Region/PIHP	Population and survey implemented	Prescription drug use in the past 30 days	
		Yes	No
Total	Selective-Pre	74	2014
		3.5%	96.5%
	Selective-Post	46	1346
		3.3%	96.7%
	Indicated-Pre	4	70
		5.4%	94.6%
	Indicated-Post	3	28
		9.7%	90.3%
3. Lakeshore Regional Entity	Selective-Pre	8	85
		8.6%	91.4%
	Selective-Post	0	49
		0.0%	100.0%

Michigan Prevention Data System (MPDS)
Prevention Outcomes Survey
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Region/PIHP	Population and survey implemented	Prescription drug use in the past 30 days	
		Yes	No
5. Mid-State Health Network	Selective-Pre	6	189
		3.1%	96.9%
	Selective-Post	8	104
		7.1%	92.9%
	Indicated-Pre	0	38
		0.0%	100.0%
	Indicated-Post	1	15
		6.3%	93.8%
6. CMH Partnership of Southeast MI	Selective-Pre	11	277
		3.8%	96.2%
	Selective-Post	3	88
		3.3%	96.7%
	Indicated-Pre	4	27
		12.9%	87.1%
	Indicated-Post	1	4
		20.0%	80.0%
7. Detroit Wayne Integrated Health Network	Selective-Pre	30	974
		3.0%	97.0%
	Selective-Post	8	220
		3.5%	96.5%
9. Macomb County CMH Services	Selective-Pre	19	489
		3.7%	96.3%
	Selective-Post	27	885
		3.0%	97.0%
	Indicated-Pre	0	5
		0.0%	100.0%
	Indicated-Post	1	9
		10.0%	90.0%

FIGURE T. SELF-REPORTED PAINKILLER MISUSE IN THE PAST 30 DAYS
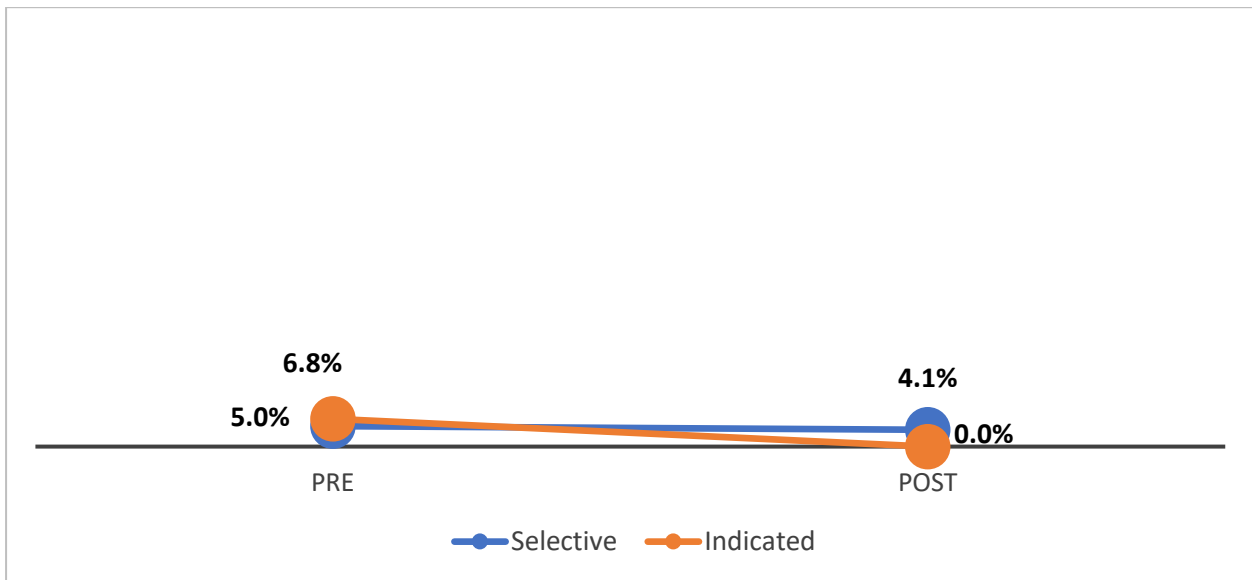

TABLE 21. SELF-REPORTED PAINKILLER MISUSE IN THE PAST 30 DAYS BY REGION

Region/PIHP	Population and survey implemented	Painkiller drug use in the past 30 days	
		Yes	No
Total	Selective-Pre	104	1984
		5.0%	95.0%
	Selective-Post	57	1335
		4.1%	95.9%
	Indicated-Pre	5	69
		6.8%	93.2%
	Indicated-Post	0	31
		0.0%	100.0%
3. Lakeshore Regional Entity	Selective-Pre	8	85
		8.6%	91.4%
	Selective-Post	3	46
		6.1%	93.9%

Michigan Prevention Data System (MPDS)
Prevention Outcomes Survey
July 2021

Region/PIHP	Population and survey implemented	Painkiller drug use in the past 30 days	
		Yes	No
5. Mid-State Health Network	Selective-Pre	13	183
		6.6%	93.4%
	Selective-Post	10	102
		8.9%	91.1%
	Indicated-Pre	3	35
		7.9%	92.1%
	Indicated-Post	0	16
		0.0%	100.0%
6. CMH Partnership of Southeast MI	Selective-Pre	15	273
		5.2%	94.8%
	Selective-Post	2	90
		2.2%	97.8%
	Indicated-Pre	2	29
		6.5%	93.5%
	Indicated-Post	0	5
		0.0%	100.0%
7. Detroit Wayne Integrated Health Network	Selective-Pre	48	955
		4.8%	95.2%
	Selective-Post	10	218
		4.4%	95.6%
8. Oakland Community Health Network	Selective-Pre	20	488
		3.9%	96.1%
	Selective-Post	32	879
		3.5%	96.5%
9. Macomb County CMH Services	Selective-Pre	0	5
		0.0%	100.0%
	Selective-Post	0	10
		0.0%	100.0%
	Indicated-Pre	0	14
		0.0%	100.0%
	Indicated-Post	0	10
		0.0%	100.0%

FIGURE U. SELF-REPORTED VAPE PRODUCTS USE IN THE PAST 30 DAYS
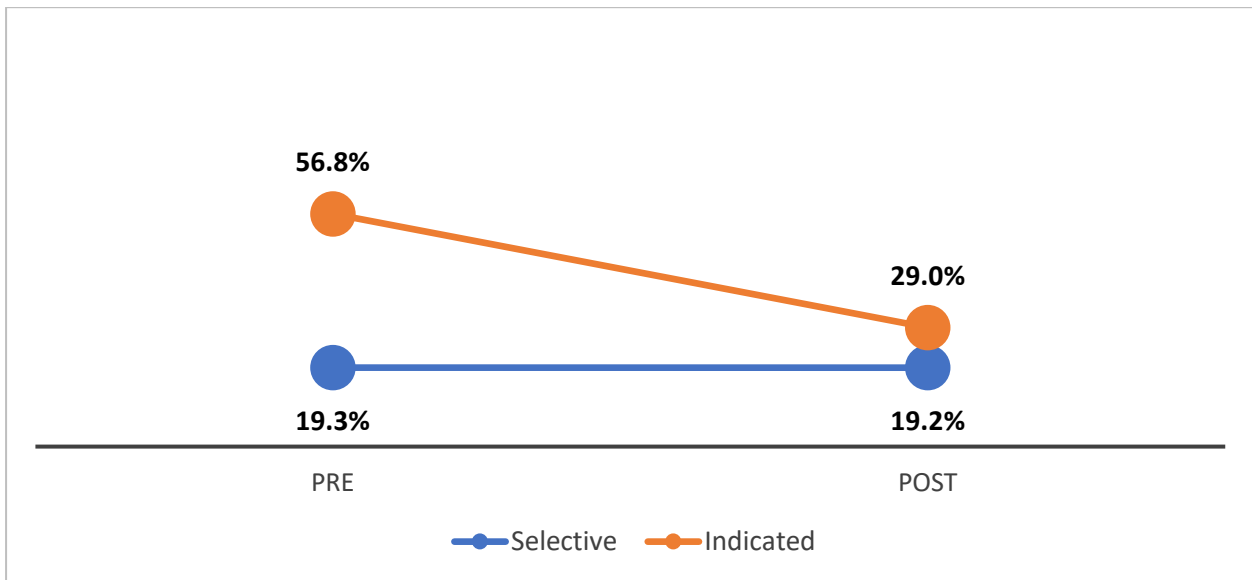
TABLE 22. SELF-REPORTED VAPE PRODUCT USE IN THE PAST 30 DAYS BY REGION

Region/PIHP	Population and survey implemented	Electronic vapor product use in the past 30 days	
		Yes	No
Total	Selective-Pre	402	1686
		19.3%	80.7%
	Selective-Post	268	1125
		19.2%	80.8%
	Indicated-Pre	42	32
		56.8%	43.2%
	Indicated-Post	9	22
		29.0%	71.0%
3. Lakeshore Regional Entity	Selective-Pre	26	65
		28.6%	71.4%
	Selective-Post	15	34
		30.6%	69.4%

Region/PIHP	Population and survey implemented	Electronic vapor product use in the past 30 days	
		Yes	No
5. Mid-State Health Network	Selective-Pre	59	137
		30.1%	69.9%
	Selective-Post	27	85
		24.1%	75.9%
	Indicated-Pre	19	19
		50.0%	50.0%
	Indicated-Post	6	10
		37.5%	62.5%
6. CMH Partnership of Southeast MI	Selective-Pre	109	180
		37.7%	62.3%
	Selective-Post	21	71
		22.8%	77.2%
	Indicated-Pre	23	8
		74.2%	25.8%
	Indicated-Post	0	5
		0.0%	100.0%
7. Detroit Wayne Integrated Health Network	Selective-Pre	117	886
		11.7%	88.3%
	Selective-Post	28	200
		12.3%	87.7%
9. Macomb County CMH Services	Selective-Pre	91	418
		17.9%	82.1%
	Selective-Post	177	735
		19.4%	80.6%
	Indicated-Pre	0	5
		0.0%	100.0%
	Indicated-Post	3	7
		30.0%	70.0%

Adult Participants Summary

The percent of adult participants aged 18 or older who perceived high risk (i.e., moderate, or great risk) from addictive substances use are summarized below. It should be noted that the number of surveys completed by adults in the indicated population were small (n=14) with no post-test surveys submitted; therefore, not included in the adult participants summary. Overall, adult perception of risk in the selective population increased from pre- to post-test for all substances at the state level (See Table 23).

TABLE 23. TOTAL NUMBER OF ADULTS WHO PERCEIVED HIGH RISK FROM SUBSTANCE USE

		Population and Survey Implemented	
		Selective-Pre	Selective-Post
Cigarette High Risk Perception	Yes	185	65
		75%	77%
	No	63	19
		25%	23%
Alcohol High Risk Perception	Yes	158	56
		64%	67%
	No	90	28
		36%	33%
Binge Alcohol High Risk Perception	Yes	167	62
		67%	74%
	No	81	22
		33%	26%
Marijuana High Risk Perception	Yes	107	47
		43%	56%
	No	141	37
		57%	44%
Prescription Drug Misuse High Risk Perception	Yes	170	62
		69%	74%
	No	78	22
		31%	26%
Painkiller Misuse High Risk Perception	Yes	171	64
		69%	76%
	No	77	20
		31%	24%
Vape Products High Risk Perception	Yes	151	57
		61%	68%
	No	97	27
		39%	32%

Overall, self-reported use of substances in the past 30 days decreased from pre- to post-test among adult participants in the selective population (See Table 24).

TABLE 24. SELF-REPORTED SUBSTANCE USE IN THE PAST 30 DAYS IN ADULT PARTICIPANTS

| | | Population and Survey Implemented | |
		Selective-Pre	Selective-Post
Cigarettes	Yes	100	25
		40%	30%
	No	148	58
		60%	70%
Alcohol	Yes	73	18
		30%	22%
	No	174	65
		70%	78%
Binge Alcohol	Yes	45	6
		18%	7%
	No	203	77
		82%	93%
Marijuana	Yes	56	13
		23%	16%
	No	192	70
		77%	84%
Prescription Drugs	Yes	29	2
		12%	2%
	No	219	81
		88%	98%
Painkillers	Yes	28	4
		11%	5%
	No	220	79
		89%	95%
Vape Products	Yes	33	6
		13%	7%
	No	215	76
		87%	93%

Appendix 1: Survey

Michigan Prevention Data Systems (MPDS) Survey: PRE-TEST

Directions: Please read every question and mark (X) your response.

Alcohol use includes drinking beer, wine, wine coolers, and liquor such as rum, gin, vodka, or whiskey. For these questions, drinking alcohol does not include drinking a few sips of wine for religious purposes.

Marijuana is also called grass or pot.

Electronic vapor products include e-cigarettes, e-cigs, e-pipes, vape pipes, vaping pens, e-hookahs, and hookah pens.

Age Group   _____Age 17 or below   _____Age 18-20   _____ Age 21 or Above

How much do you think people risk harming themselves (physically or in other ways) if they?

1. Smoke one or more packs of cigarettes per day?
    _____ No risk   _____Slight risk   _____Moderate risk   _____Great risk   _____ Cannot say/Drug unfamiliar

2. Take one or two drinks of an alcoholic beverage nearly every day?
    _____ No risk   _____Slight risk   _____Moderate risk   _____Great risk   _____ Cannot say/Drug unfamiliar

3. Have five or more drinks of alcohol once or twice each weekend?
    _____ No risk   _____Slight risk   _____Moderate risk   _____Great risk   _____ Cannot say/Drug unfamiliar

4. Use marijuana once or twice a week?
    _____ No risk   _____Slight risk   _____Moderate risk   _____Great risk   _____ Cannot say/Drug unfamiliar

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5. Use prescription drugs (such as Ritalin, Adderall, or Xanax) that are not prescribed to them?
   _____ No risk   _____Slight risk   _____Moderate risk   _____Great risk   _____
   Cannot say/Drug unfamiliar

6. Use painkillers (such as OxyContin, Codeine, Vicodin, or Percocet) that are not prescribed to them?
   _____ No risk   _____Slight risk   _____Moderate risk   _____Great risk   _____
   Cannot say/Drug unfamiliar

7. Use electronic vapor products nearly every day?
   _____ No risk   _____Slight risk   _____Moderate risk   _____Great risk   _____
   Cannot say/Drug unfamiliar

In the past 30 days, have you:	Yes	No
8. Smoked cigarettes?		
9. Had at least one drink of alcohol (more than just a few sips)?		
10. Had 4 or more drinks of alcohol in a row (if you are female) or 5 or more drinks of alcohol in a row (if you are male), that is within a couple of hours?		
11. Used marijuana?		
12. Used prescription drugs (such as Ritalin, Adderall, or Xanax) without a doctor's prescription?		
13. Used painkillers (such as OxyContin, Codeine, Vicodin, or Percocet) without a doctor's prescription?		
14. Used an electronic vapor product?		

Notice of Non-Discrimination

The Michigan Department of Health and Human Services will not exclude from participation in, deny benefits of, or discriminate against any individual or group because of race, sex, religion, age, national origin, color, height, weight, marital status, gender identification or expression, sexual orientation, partisan considerations, or a disability or genetic information that is unrelated to the person's eligibility.