

COMMUNITY NALOXONE IMPROVEMENT MAHONING COUNTY DISTRICT BOARD OF HEALTH, MCDBOH (OH) 11 FULL TIME EMPLOYEES



Public Health
Prevent. Promote. Protect.
Mahoning County
District Board of Health

PLAN
Identify an opportunity and Plan for Improvement

1. Getting Started

Mahoning County has seen an increase in drug overdoses and drug overdose deaths in the last 5 years. Mitigation activities have been put into place and one of those activities is a program called Project DAWN. Project DAWN is a program that provides free take-home naloxone kits to community members. These community members are usually family members of addicts, but can also be service agencies and members of general public interested in having a kit. The Mahoning County District Board of Health became a Project DAWN distribution site in 2015. Since then we had distributed only 223 kits in the first three years. The 1st quarter of 2018, the MCDBOH Nursing division reviewed data from previous from 2015 – 2017 for the amount of Naloxone kits being distributed. Data indicated there was an increase each year in kits being distributed but the target goal of 10 kits per month and a 60% distribution in areas of high risk were not being achieved.

Year	Number of Kits Distributed
2015	7
2016	44
2017	172

2. Assemble the Team

The QI Council Chair formed a team based on the revised 2018 QI participation objectives as 11 employees representing various divisions were selected; Environmental Health Division (1 staff), Nursing and Community Division (7 staff), Women, Infant and Children Division (2 Staff), Laboratory Services (1 Staff) . The team initially met for one full day The QI Team met once on July 2, 2018. A variety of QI tools were utilized in order to identify potential reasons for low distribution of Naloxone kits in high risk census tracts.

3. Examine the Current Approach

Project DAWN program was promoted in the community through the use of brochures, press releases, and word of mouth. Mahoning County Mental Health and Recovery Board assisted with promotion of the program and referred individuals and family members to the Project DAWN coordinator. Project DAWN trainings were scheduled at the health department as needed for individuals who contacted the coordinator and requested training.

AIM Statement(s)

The QI team decided to keep the original goal that was not currently being achieved for the distribution of Project DAWN Kits:

- 10 kits per month/30 per quarter.
- 60% of Naloxone kits will be distributed in high risk census tracts

4. Identify Potential Solutions

In order to identify potential solutions to the problem, the QI team decided on brainstorming ideas that would increase the number of kits distributed each month and subsequently achieve the set goals of the aim statement.

Brainstorming Ideas for Improvement
A. The use of educational door hangars similar to Trumbull County ASAP
B. The distribution of Project DAWN brochures to: <ul style="list-style-type: none"> • Mahoning County Public Health WIC • Job and Family (JFS), • MYCAP, • Libraries , • Salvation Army • Rescue Mission
C. Billboard advertising
D. Family Support Groups/Addiction Groups
E. Social Media Ads
F. Neighbourhood Watch Group presentations
G. Educational Ads on Busing and with Bureau of Motor vehicle
H. Movie Theatre Ads
I. Church announcement/s/advertising

1. Develop an Improvement Theory

In order for the team to come to a consensus on which brainstorming ideas would be most effective, the use of the Nominal Group Technique (NGT) was used. The NGT allows for each team member to numerically rank the solutions without being pressured by others. The ideas from the Brainstorming Chart (A thru I) were ranked with numbers 1-8 with 8 being "most" important and 1 being the "least" important to address. Due to funding being limited, all participants were asked to take consideration of high cost/ high effort as being constraint when making their ranking determination.

	E 1	E 2	E 3	E 4	E 5	E 6	E 7	E 8	E 9	E 10	E 11	To tal
A	4	4	3	2	3	1	4	4	5	1	1	32
B	9	8	9	9	9	8	9	9	9	8	8	95
C	5	5	4	5	5	3	5	2	4	4	4	46
D	6	6	6	7	6	6	6	5	6	6	5	65
E	7	9	7	6	7	9	8	8	7	7	9	84
F	1	1	2	3	2	4	1	1	1	2	2	20
G	8	7	8	8	8	7	7	7	8	9	7	84
H	2	3	1	1	1	2	2	3	3	3	3	24
I	3	2	2	4	4	5	3	6	2	5	6	42

DO
Test the Theory for Improvement

6. Test the Theory

The following five ideas ranked the highest based on the NGT ranking and they were used as described below:

B. The Distribution of Project DAWN brochures were distributed with Mahoning County Women and Infant Children program packets as this was considered a cost effective approach to distribute information to clients that we already serve. In addition,

MCDBOH and MYCAP administration were approached and agreed to training for discussion on the ProjectDawn program during needs screening with their clients.

E. Social Media Ads through the MCPH Facebook were used to distribute educational information about ProjectDawn and any available training during the year.

C & G. MCPH contracted ProjectDawn advertising through the Western Reserve Transit Authority (WRTA). WRTA provides public busing transportation services within in Mahoning County and ProjectDawn advertising initiatives were accomplished through vinyl bus wraps and informational signage was posted inside the buses. Advertising also occurred on billboards and on the screens at the Bureau of Motor Vehicles branches in the high risk zip codes

D. ProjectDawn education and trainings, for specific targeted areas, were accomplished through family support groups and addiction groups. The targeted areas based by zip codes (44505, 44511, 44512, and 44515) were selected from the previous three years of data for higher than normal overdoses

CHECK
Use Data to Study Results of the Test

2. Check the Results

The final outcome of this project achieved the measurable goal for distributing at least 30 or more ProjectDawn kits per quarter. However, the monthly data indicated 66.7% achievement rate for 10 or more kits distributed each month. Data for targeting 60% in the high census tract areas was attained for Quarter one, Quarter two and quarter three. Though, quarter four was 2% short of their 60% goal, the first quarter results for a 98% distribution in a high census tract outweighed the fourth quarter loss.

ACT
Standardize the Improvement and Establish Future Plans

8. Standardize the Improvement or Develop New Theory

Advertising increased the overall community awareness of the Project DAWN program but the QI project determined that the most effective way was to hold targeted trainings in identified high risk zip codes and with the high risk populations. A continued collaborative partnership with the Mental Health and Recovery Board as established new efforts to assist MCPH in determining the neighborhood supports groups and other gathering places where the most impact could be made.

9. Establish Future Plans

Project DAWN program through the new Integrated Naloxone grant will continue to recruit community groups and individuals for Naloxone training. The training and kits will also be provided to drug court participants as part of their court mandated treatment program. Families of these drug court clients will also be offered the training and kits.