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THE FEASIBILITY AND ACCEPTABILITY OF USING A MEDICATION ASSISTED TREATMENT (MAT) PROGRAM WITH SUBOXONE FOR PATIENTS IN A COMMUNITY BEHAVIORAL CLINIC

by

MARINA NEDOSPASOVA, MSN, MA, FNP-BC, FNP-C, PMHNP-BC

A DNP PROJECT

Submitted in partial fulfillment of the requirements for the Degree of Doctor of Nursing Practice

to

The School of Graduate Studies

of

The University of Alabama in Huntsville

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10/30/2018

Student Signature

Date

DNP PROJECT APPROVAL FORM

Submitted by Marina Nedospasova in partial fulfillment of the requirements for the degree of Doctor of Nursing Practice and accepted on behalf of the Faculty of the School of Graduate Studies by the DNP project committee.

We, the undersigned members of the Graduate Faculty of The University of Alabama in Huntsville, certify that we have advised and/or supervised the candidate on the work described in this DNP project. We further certify that we have reviewed the DNP project manuscript and approve it in partial fulfillment of the requirements for the degree of Doctor of Nursing Practice.

Committee Chair Azita Amir (Date) 10/24/18 Azar Sheikholeslami

DNP Program Coordinator

College of Nursing, Associate Dean

College of Nursing, Dean

Graduate Dean

ABSTRACT The School of Graduate Studies The University of Alabama in Huntsville

Degree: Doctor of Nursing Practice C

College: Nursing

Name of Candidate: Marina Nedospasova

Title: The Feasibility and Acceptability of Using a Medication Assisted Treatment (MAT) Program with Suboxone for Patients in a community behavioral clinic

Objectives: To determine the effectiveness, adherence, and acceptability/feasibility of a MAT program with Suboxone for three months. **Design:** A mixed method study was conducted. **Settings:** Data was collected from a community behavioral clinic, in Huntsville, Alabama. **Participants:** Clients with Opioid Use Disorder, 18 years and older participated in this study. **Methods:** Clients were selected upon meeting the Opioid Use Disorder criteria as determined by DSM-5. The participants completed the Circumstances, Motivation, Readiness questionnaire (CMR) and the National Institute on Drug Abuse (NIDA) quick screen upon client induction into the treatment program. The NIDA quick screen was re-administered in 1-, 2- and 3-month increments after starting the treatment with Suboxone. The CMR scale assessed the acceptability of the MAT program by the patients. The NIDA quick screen was used to determine the adherence, effectiveness, and feasibility of the MAT program.

Results: Five individuals, four men and one woman were recruited. All reported opioids as their drug of choice, had a long history of substance abuse, and were buying prescription opioids off the street. All clients found that the use of Suboxone in this MAT program v/as effective in keeping their opioid addiction under control. Wilcoxon signedrank test showed the same significant results (p=0.046) for all three evaluation periods after initiation of the MAT program. The NIDA quick screen results showed that all participants adhered to the MAT program.

The feasibility of the MAT program was assessed via the client's responses related to the use, access, helpfulness, and future use of Suboxone. All participants reported that they will continue the use of Suboxone because it is helpful to control their cravings to opioids and other substances, easy to use (oral intake), and easy to access through the pharmacy. **Conclusion:** Although our study showed that the treatment with Suboxone is an effective method of opioid treatment, more studies with a larger sample size and long-term follow-up evaluations are recommended.

la Amiri Abstract Approval: Committee Chair

Program Director

Graduate Dean

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I would like to acknowledge Peter Mazurkivich for the continuous support of my DNP project and related research; for his patience, motivation, immense knowledge and proof-reading skills. His guidance helped me in the research and writing of this project.

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The Feasibility and Acceptability of Using a Medication Assisted Treatment (MAT) Program with Suboxone for Patients in a Community Behavioral Clinic Identification of Problem

Abuse of prescription opioids has become a significant public health problem in the United States (Steele & Cunningham, 2012). The misuse of prescription drugs is the leading cause of opioid overdoses in the past decade. The rate of opioid-overdose related deaths has quadrupled over the past 17 years, fueled by the over prescription of painkillers and the proliferation of heroin and synthetic opioids (The Centers for Disease Control and Prevention, 2017).

Approximately 7.1 million people met the criteria for an illicit drug use disorder in the past year. Consequently, substance misuse is the most prevalent cause of adolescent morbidity and mortality in the United States. In 2015, there were 33,091 overdose deaths involving prescription opioid medications (the Center for Disease Control and Prevention, 2018). This is equivalent to one death every 16 minutes (Substance Abuse and Mental Health Services Administration, 2017).

The addiction to prescribed opioids is associated with poor academic performance, school truancy, unemployment, teen pregnancy, spread of sexually transmitted diseases, HIV, hepatitis, crime, driving under the influence, and related motor vehicle accidents (Sussman & Ames, 2008). In 2009, it was estimated that the total overall cost of substance abuse in the United States, including lost productivity and health and crime-related costs, exceeded \$600 billion (The Institute of Drug Abuse, 2012). The estimated annual cost for substance abuse treatment in the United State ranges from \$16 to 18 billion. Without treatment, addicts in search of their next hit, turn instead to the black market, which responds to the surging demand with dangerous counterfeit opioids that contribute to even more deaths. Study after study supports the effectiveness of drugbased therapies for opiate addiction (Stotts, Dodrill, & Kosten, 2009) & (Bart, 2012).

Only a small percentage of the 2 million people in America with opioid-use disorders get Medication Assisted Treatment (MAT), which is a public health priority in the reduction of opioid use (Murthy, 2016). There are two types of commonly prescribed opiate substitute medications in the USA: methadone and buprenorphine-naloxone (Suboxone). Originally, methadone and buprenorphine were used as analgesic agents. Methadone has been used for treating opioid dependence since 1960, and buprenorphine (Subutex) was approved in Sweden for treating opioid dependence in 1999. The combination of buprenorphine and naloxone was developed and introduced in 2006 under the name Suboxone. Methadone is a full opioid antagonist; buprenorphine is a partial muopioid receptor agonist (Wikner et al., 2014).

Buprenorphine-naloxone (Suboxone) is a valuable, alternative option to methadone in treatment of opiate dependence, because buprenorphine as a synthetic opiate enables the consumer to avoid the unpleasant feelings of drug withdrawal, and naloxone effectively counteracts the effects of opioids. Suboxone contains opioid antagonist naloxone and buprenorphine in a ratio of 1-part naloxone to 4-parts buprenorphine and is designed to limit the potential for misuse and diversion (Magura, 2009). For instance, naloxone as a part of Suboxone has a low bioavailability when taken sub-lingually and therefore has no effect on the potential for mis-use. If Suboxone is injected, naloxone enters the systemic blood circulation, which allows it to reach the opioid receptors to block them and negate the effects of any agonist, including buprenorphine. This can cause acute opioid withdrawal symptoms, which makes the misuse of buprenorphine- naloxone (Suboxone) very unattractive (Tanner, Bordon,

Conroy, & Best, 2011). In relation to dosing, buprenorphine in combination with naloxone has a longer duration of effect. According to Correia, Walsh, Bigelow, & Strain (2006), the effects of buprenorphine in the buprenorphine/naloxone combination are long-acting, with effects lasting for up to 98 hours.

Purpose

The establishment of MAT programs is a critical step in treating opioid addiction and reducing these opioid overdose related deaths. The purpose of this study is to determine whether a Medication Assisted Treatment (MAT) program with Suboxone can be implemented in a community mental health clinic. The objectives are:

1- To determine the effectiveness of a MAT program with Suboxone for three months.

- 2- To determine patient's adherence to a MAT program.
- 3- To determine the acceptability/feasibility of the MAT program.

Research Questions

- 1- Can the implementation of a Medication Assisted Treatment (MAT) program with Suboxone for three months, help adult substance abusers decrease the use of illegal/illicit substances?
- 2- Do the patients adhere to the MAT program?
- 3- Is the use of the MAT program acceptable/feasible for patients?

Literature Review

Medical guidance suggests that the decision about which opiate substitute to use should be based on individual case factors, client's preferences and choices, and also the clinician's estimated relative risk of each factor (Tanner et al, 2011). It was thought that methadone and buprenorphine-naloxone were highly and equally effective for preventing relapse to regular opioid users. McKeganey, Russell, & Cockayne (2013) investigated the efficacy of methadone and buprenorphine-naloxone treatment. This study showed that both medications are equally effective for preventing relapses to regular heroin use. The researchers concluded that prescribing methadone and buprenorphine-naloxone for eight continuous months was highly effective for initiating abstinence from heroin use and for converting short-term abstinence to long-term abstinence.

Magura, et al. (2009) conducted a randomized clinical trial comparing buprenorphine with methadone treatment of opiate-dependent individuals in correctional settings by initiating treatment prior to prison release. The authors found that there were no post-release differences between the buprenorphine and methadone groups in selfreported relapse to illicit opioid use, self-reported re-arrests, self-reported severity of crime or re-incarceration in jail.

Some researchers had some concerns about economic considerations in regards to the use of Buprenorphine. Barnett (2009) compared the cost and utilization among buprenorphine and methadone patients by examining economic impact of buprenorphine adoption by the US Veterans Health Administration (VHA). The author concluded that despite the high cost of buprenorphine above traditional medication, it was no more expensive than methadone treatments. VHA methadone treatment costs were higher than reported by other providers.

Otiashvili, et al. (2013) conducted a randomized controlled 12-week trial to determine the effectiveness of buprenorphine and methadone in the reduction of use of unprescribed opioids and HIV risk behavior. The researchers compared buprenorphinenaloxone (Suboxone) and methadone groups and found out that there were no clinically significant differences between the two groups. They concluded that the use of methadone and buprenorphine-naloxone (Suboxone) are both effective treatments for

non-medically obtained buprenorphine and other opioids as well as risk for HIV behavior.

Lee, Klein-Schwartz, Welsh, & Doyon (2013) conducted a retrospective review of poison control center data to determine the medical outcomes associated with the nonmedical use of methadone and buprenorphine. After reviewing 1,990 cases (1,594 methadone cases and 326 buprenorphine cases), the authors concluded that clinical effects after nonmedical use of methadone was much worse (central nervous system and respiratory depression) then buprenorphine (gastrointestinal symptoms). Patients who used methadone nonmedically were more likely to fare worse on all measures of health outcomes and more likely to have received naloxone, endotracheal intubation, to be admitted to the ICU, and more likely to die. There were 26 deaths in the methadone group. The risks associated with the nonmedical use of buprenorphine were much less severe because the patients in the buprenorphine group were likely to be treated with antiemetics and benzodiazepines. In addition, there were no deaths in the buprenorphine group.

Hi!l, et al. (2015), compared methadone and buprenorphine-naloxone (Suboxone) as opioid substitutional therapy by questioning ninety patients from North Lanarkshire. Researches explored patient's comments on buprenorphine-naloxone (Suboxone) use, the reasons why patients prefer methadone to buprenorphine-naloxone (Suboxone), and the reasons patients would/would not consider transferring to buprenorphine-naloxone (Suboxone). The study concluded that patients were highly positive about their experience with buprenorphine-naloxone (Suboxone) and preferred it over methadone because buprenorphine-naloxone (Suboxone) helped the patients "think more clearly", improve their well-being, concentration, reduced cravings, had less of a stigma and

decreased life-threating adverse side effects. As a result, about 57% of the patients would consider buprenorphine-naloxone (Suboxone) for future treatment.

Tanner et el. (2011) compared methadone and Suboxone in applied treatment. Researchers collected two sets of data: from open narrative accounts of those successfully detoxified with Suboxone (buprenorphine-naloxone combination) and structured interviews with clients comparing Suboxone and methadone. The study showed clients reported more clarity of thinking while on Suboxone. Suboxone was associated with increased confidence and lower stigma than methadone.

Wikner et al. (2014) conducted a study that compared mortality rates related to prescription methadone and buprenorphine. Researchers concluded that the mortality rate was slightly increased in methadone users: from 19 to 81 cases for methadone and to 49 cases for buprenorphine. This difference in mortality rates can be explained in that methadone is a full antagonist of mu-opioid receptors and block opioid receptors and causes difficulties to reverse respiratory depression if it does occur. Therefore, researchers concluded that there is a higher prevalence of drug use death associated with methadone use. Repelli et al., (2007) investigated recovery-conductive effects associated with buprenorphine-naloxone. They concluded that buprenorphine-naloxone is associated with improved cognitive performance compared with methadone use.

Mattick, Kimber, Breen, & Davoli (2008) compared buprenorphine with methadone and a placebo, based on 24 randomized clinical trials. This study showed that there was no difference in suppression of opioid use with the use of buprenorphine compared with methadone, but the study showed that buprenorphine is better than methadone in MAT retention rate. In addition, researchers investigated the optimal dose that would be necessary for retention in opioid treatment. They concluded that medium

dose (8-15 mg) buprenorphine would suppress heroin more effectively than low dose (2-4 mg) methadone with no difference in retention of the patients. Mattick et al., (2008) concluded that buprenorphine at medium and high doses (16 mg) can reduce heroin use effectively, compared with a placebo, although it is less effective than methadone, especially if methadone is prescribed at adequate dose levels between 60 mg and 120 mg per day. The authors concluded that only medium and high dose buprenorphine suppressed heroin use significantly above placebo levels.

Magura (2009) has suggested one potential benefit of buprenorphine over methadone in that it results in less onerous withdrawals after a period of maintenance and that buprenorphine may have a lower dependence in comparison with methadone. Compared to methadone, buprenorphine provides a more effective opioid receptor block and reduces the effect of withdrawals (Pinto, Rumball, & Holland (2008).

Fiellin et al., (2006) report that patients have a higher satisfaction rating with treatment of buprenorphine-naloxone because they visit clinics less frequently for medication dispensing: every three days for buprenorphine-naloxone and every day for methadone. Pinto et al., (2008) reports that patients prefer to stay on buprenorphine rather than on methadone for maintenance treatment because it provides reduced cravings. Tenner et al., (2011), compared the perception of methadone and buprenorphinenaloxone users. The buprenorphine-naloxone users reported a greater clarity of thinking and self-efficacy compared with methadone users (Rapelli et al., 2007); less intense side effects (O'Connor & Fiellin, 2000); improved decision-making (Pirastu et al., 2005), rapid stabilization (Doran et al., 2003), and fewer drug interactions (McCance-Katz et al., 2006).

According to Bart (2012), buprenorphine-naloxone (Suboxone) mimics the narcotic effects of heroin and painkilling opiates without the addictive high. The medication can lower addicts' risk of overdose death by more than 50% and their risk of relapse by more than 50%. After four years of the buprenorphine-naloxone (Suboxone) treatment, one third of the patients completely stopped the use of opioids and no longer needed buprenorphine-naloxone (Suboxone) to maintain their sobriety.

According Bart (2012), people who take methadone and buprenorphine-naloxone (Suboxone) are more able to keep a job, avoid relapses and gradually reduce their need to continue using heroin and other illegal/illicit drugs. Therefore, the above findings led to the conclusion that buprenorphine-naloxone (Suboxone) would be a more desirable drug to be used in MAT programs.

According to McKeganey, Russell & Cockayne (2013), the prescribing of narcotic substitute medications indicated for opiate dependence is a key element for recovery. In early 1970, President Richard Nixon conscripted methadone into the national war on drugs (Satel, 2014). The Obama Administration unveiled a bold \$1.1 billion proposal that encouraged the use of medications like buprenorphine to treat people with addiction. It also allowed physicians, nurse practitioners, and physician assistants to receive the proper training to prescribe the drug (The American Society of Addiction Medicine, 2018). The challenge of MAT is to facilitate patients' cessation from opiate use and decrease their risk of death when combined with street opioids.

The conceptual and theoretical framework

Rogers's Science of Unitary Human Being emphasizes the constant interaction of human and environment and can be used in regards to opioid addiction and recovery. Roger's (1970) work described four concepts within her theory: human being, environment, health, and nursing.

Roger's view of unitary "human being" is summarized in three principles of homodynamic: helicy, resonancy, and integrality (Rogers, 1992). *Helicy* is a principle that describes the continuous evolution of energy and can be associated with a human being's desire to use drugs in order to escape their harsh reality. *Resonancy* is a frequency and reflects the continuous variability of human energy as it changes. *Resonancy* in context to substance abuse can be related to a human being's rate of use of illegal substances. *Integrality* or the continuous interaction of an individual and the environment in regards to substance abuse, illustrates the adherence to a Medication Assisted Treatment (MAT) program.

This current study is designed to explore the effects of the MAT program in regard to desires (cravings) for opioids, frequency of use, and medical and legal consequences of opioid use. According to Rogers's theory (1992), environment is "an irreducible, pandimensional, negentropic energy field" and "man and environment are continuously exchanging matter and energy with one another" (Rogers, 1970, p.54). This current study will explore the effects of MAT on man's (client's) social functioning and adaptation to negative factors. Rogers viewed health and illness as a part of a continuum (Rogers, 1970). This current study will determine the effects of MAT on health risk behavior with potential consequences such as HIV, hepatitis, and STDs.

The concept of nursing is viewed as both the art and science of providing sensitive care via the interaction between human beings and the environment. This concept can be explored through a client's perception of a MAT program (acceptability)

and the provider's perception on the degree of capability of implementation of the MAT program (feasibility).

Rogers's Science of Unitary Human Being emphasizes the constant interaction of humans and their environment. The concepts of the Science of Unitary Human Being of Martha Roger's theory can be used in this MAT program (environment) on humans as an energy field via the use of Suboxone and intensive outpatient group therapy.

Section II

The Journal of Psychosocial Nursing and Mental Health Services

A. Journal Scope

The Journal of Psychosocial Nursing and Mental Health Services is a peer-reviewed journal for mental health nurses in a variety of community and institutional settings.

B. Journal Aim

The Journal of Psychosocial Nursing and Mental Health Services provides the most upto-date, practical information available for today's psychosocial nurse, including short contributions about psychopharmacology, mental health care of older adults, and child/adolescent disorders and issues. The Feasibility and Acceptability of Using a Medication Assisted Treatment (MAT) Program with Suboxone for Patients in a Community Behavioral Clinic

Abstract

Objectives: To determine the effectiveness, adherence, and acceptability/feasibility of a MAT program with Suboxone for three months. **Methods:** Clients with Opioid Use Disorder completed the Circumstances, Motivation, Readiness questionnaire (CMR) and the National Institute on Drug Abuse (NIDA) screen. The NIDA quick screen was re-administered at 1-, 2- and 3-months. The CMR scale assessed the acceptability of the MAT program, the NIDA quick screen was used to determine the adherence, effectiveness, and feasibility.

Results: All clients found that the use of Suboxone in this program was effective. Wilcoxon signed-rank test showed the same significant results (p=0.046) for all three evaluation periods. The NIDA quick screen results showed that all participants adhered to the MAT program.

Conclusion: Although the study showed that the treatment with Suboxone is an effective method of opioid treatment, more studies with a larger sample size and long-term follow-up evaluations are recommended.

Key words:

Medication Assisted Treatment, MAT, Suboxone, buprenorphine, opioid use disorder, CMR, NIDA

Introduction

Abuse of prescription opioids has become a significant public health problem in the United States (Steele & Cunningham, 2012). The misuse of prescription drugs is the leading cause of opioid overdoses in the past decade. The rate of opioid-overdose related deaths has quadrupled over the past 17 years, fueled by the over prescription of painkillers and the proliferation of heroin and synthetic opioids (The Centers for Disease Control and Prevention, 2017).

Approximately 7.1 million people met the criteria for an illicit drug use disorder in the past year. Consequently, substance misuse is the most prevalent cause of adolescent morbidity and mortality in the United States (Substance Abuse and Mental Health Services Administration, 2017). In 2015, there were 33,091 overdose deaths involving prescription opioid medications (the Center for Disease Control and Prevention, 2018). This is equivalent to one death every 16 minutes (SAMHSA, 2017).

The addiction to prescribed opioids is associated with poor academic performance, school truancy, unemployment, teen pregnancy, spread of sexually transmitted diseases, HIV, hepatitis, crime, driving under the influence, and related motor vehicle accidents (Sussman & Ames, 2008). In 2009, it was estimated that the total overall cost of substance abuse in the United States, including lost productivity and health and crime-related costs, exceeded \$600 billion (National Institute on Drug Abuse, 2012). The estimated annual cost for substance abuse treatment in the United State ranges from \$16 to 18 billion. Without treatment, addicts in search of their next hit, turn instead to the black market, which responds to the surging demand with dangerous counterfeit opioids that contribute to even more deaths. Study after study supports the effectiveness of drugbased therapies for opiate addiction (Stotts, Dodrill, & Kosten, 2009) & (Bart, 2012).

Only a small percentage of the 2 million people in America with opioid-use disorders get Medication Assisted Treatment (MAT), which is a public health priority in the reduction of opioid use (Murthy, 2016). There are two types of commonly prescribed opiate substitute medications in the USA: methadone and buprenorphine-naloxone (Suboxone). Originally, methadone and buprenorphine were used as analgesic agents. Methadone has been used for treating opioid dependence since 1960, and buprenorphine (Subutex) was approved in Sweden for treating opioid dependence in 1999. The combination of buprenorphine and naloxone was developed and introduced in 2006 under the name Suboxone. Methadone is a full opioid antagonist; buprenorphine is a partial muopioid receptor agonist (Wikner et al., 2014). Buprenorphine-naloxone (Suboxone) is a valuable, alternative option to methadone in treatment of opiate dependence, because buprenorphine as a synthetic opiate enables the consumer to avoid the unpleasant feelings of drug withdrawal, and naloxone effectively counteracts the effects of opioids. Suboxone contains opioid antagonist naloxone and buprenorphine in a ratio of 1-part naloxone to 4-parts buprenorphine and is designed to limit the potential for misuse and diversion (Magura, 2009).

Naloxone as a part of Suboxone, has a low bioavailability when taken sublingually and therefore has no effect on the potential for mis-use. If Suboxone is injected, naloxone enters the systemic blood circulation which allows it to reach the opioid receptors to block them and negate the effects of any agonist, including buprenorphine. This can cause acute opioid withdrawal symptoms which makes the misuse of buprenorphine- naloxone (Suboxone) very unattractive (Tanner et al., 2011). In relation to dosing, buprenorphine in combination with naloxone, has a longer duration of effect. According to Correia, Walsh, Bigelow, & Strain (2006), the effects of buprenorphine in

the buprenorphine/naloxone combination are long-acting, with effects lasting for up to 98 hours.

Opioid addiction changes brain chemistry. Opioid abusers struggle to overcome the effects of these changes (e.g. cravings, stress, and psychological conditioning) during the process of recovery. Medication such as Suboxone acts on the same brain structures as an opicid but with neuro-protective effects (Kosten & George, 2002). This study is important because we need to find a way to help control cravings, along with the severity of withdrawal symptoms from opiates.

According to the National Institute of Drug Abuse (2016), nearly all of the U.S. have insufficient treatment capacity to provide MAT programs to all of the patients with an opioid use disorder. The purpose of the study was to investigate a short term (three months) effectiveness, adherence, and acceptability/feasibility of a MAT program with Suboxone.

The effectiveness of MAT is important because it prevents opioid abuse, opioidrelated deaths, criminal activities, and transmission of infectious diseases. Adherence is important because it improves treatment delivery and helps providers understand which treatments will be the most effective for specific patients. Acceptability/feasibility is important because it defines the tolerability and convenience to the treatment in the context of social functioning (NIDA, 2016).

Methodology

This study was conducted in a Mental Health clinic in Huntsville, Alabama. This clinic recently received a grant to help the community and provide free Suboxone to clients who do not have insurance. While the clinic was recruiting clients for their grant

as a routine process, the PI collected data for the purpose of this study without interfering with the process of treatment.

Institutional Review Board (IRB) approval was received from the University of Alabama in Huntsville. We used the definition of DSM-5 (Diagnostic and Statistical Manual of Mental Disorders), fifth edition, to identify Opioid Use Disorder in participants. The participants received a \$10 value gift card (\$30 total) upon completion of each monthly follow-up questionnaire.

The CMR questionnaire (the Circumstances, Motivation, Readiness, and Suitability (CMR) scale) was completed by the participants at the beginning of the study only to measure motivation and readiness for treatment and predict retention in treatment among abusers of illicit drugs. The National Institute on Drug Abuse (NIDA) quick screen questionnaire was used for the screening of drug use. This questionnaire was used to determine the frequency of use of the nine most common substances (cannabis, cocaine, prescription drugs, methamphetamines, inhalants, sedatives or sleeping pills, hallucinogens, street opioids, and prescribed opioids). The PI used this NIDA tool before client's enrollment in the MAT program to determine participants' eligibility. This tool was used every month for a total of three months after starting the MAT program. The participants received Suboxone treatment as directed by the drug manufacturer. The use of the NIDA quick screen questionnaire allows healthcare providers to understand the correlation between the use of Suboxone and the use of these drugs, and provide population sensitive care. Adherence was measured through the patient's self-report, the electronic database history for refills, and drug screening for monitoring the components of Suboxone in the patient's system.

Data Analysis

The statistical analysis was performed by using the Statistical Package for Social Sciences (SSPS) version 24.0. Clients' demographic data was analyzed to descried samples characteristics such as the age, gender, race, marital status, employment status, and educational level. Client's responses on CMR scale and NIDA questionnaire were analyzed through the use of descriptive and non-descriptive analysis of selected variables.

Results

Table 1 depicts clients' demographic data. Five individuals, four men and one woman were recruited to participate in the study within the available period. The sample consisted 20% adults 18 to 24 years of age, 40% adults 25 to 35 years of age, 40% adults 35 to 44 years of age. Their mean age was 29.8. Forty percent were married, 40% were single, and 20% were living with their partner. Their race consisted of all White/Caucasians (100%). Employment status consisted of 40% unemployed, 20% employed full-time, 20% employed part-time, 20% had odd jobs. The education level consisted of 40% of high school dropout, 40% GED, and 20% had attended some college.

All five participants stated that the major attraction to join the MAT program was to receive free medication (Suboxone) and free medical appointments. According to the clients' responses in regards to their circumstances to join the MAT program 60% of participants strongly agreed and 40% agreed that they will go to jail if they did not enroll in the treatment program. All (100%) of participants agreed that their family will not let them live at home if they did not come for treatment (Table 2).

Three participants were unemployed due to different reasons and all were uninsured. All reported opioids as their drug of choice and all had a long history starting at the age of 14-15 to the present time period of substance abuse. Two of these clients

were obtaining Suboxone on the street for \$15 per 8mg/2mg & \$12 for 4mg/1 mg. One participant was receiving it from his primary care provider. Two of them were combining prescription opioids with intravenous street heroin sporadically. One client was concurrently using prescription opioids with cannabis, sedatives, prescription stimulants, and street methamphetamines, and two others combined prescription opioids with cannabis.

Case Descriptions

The first client is a 26-year-old male and began using drugs at the age of 14. His addictions include alcohol, cannabis, crystal meth and unprescribed opioids (Lortab/Suboxone/Fentanyl). He was diagnosed with hepatitis C and had made five unsuccessful attempts in substance abuse treatment programs. He has multiple arrests (12+) related to public intoxication, burglary, drug paraphernalia, and promotion of prison contraband, and also incarceration for a probation violation. He reported Fentanyl as his drug of choice. He reported difficulties in obtaining unprescribed opioids on the street and buying crystal meth (IV/smoked/snorted) to fix his cravings for opioids. He joined the MAT program to legalize his habit and keep him from overdosing.

The second client is a 32-year-old male and was referred to this program by his parole officer after failing a drug test. This client's history of substance abuse includes: cannabis, unprescribed opioids (Lortab, Percocet, morphine, Roxicodone, Oxycontin, and Suboxone), and unprescribed benzodiazepines beginning at the age of 15. This client has had multiple arrests for burglary, theft, and obstruction of justice.

The third client is a 22-year-old female. This client's history of substance abuse includes: cannabis, unprescribed benzodiazepines, unprescribed opioids (hydrocodone & oxycodone), streets opioids (heroin), and cocaine "coke". She began using drugs at the

age of 15 after her boyfriend died from a self-inflicted gunshot wound after cooking crystal meth. This client joined the program because she couldn't afford another prescriber of Suboxone.

The forth client is a 39-year-old male. This client's history of substance abuse includes: cannabis, crystal meth "ice", unprescribed benzodiazepines, unprescribed opioids (Lortab, Norco, Oxycodone) which he began to use in his early 20's. He decided to join this medication assisted treatment program because he was unable to afford opioids on the street.

The fifth client is a 30-year-old male. This client's history of substance abuse includes: cannabis, unprescribed benzodiazepines, unprescribed opioids (Roxicodone), street opioid (heroin) which he began to use at the age of 16. The client had made three unsuccessful attempts in substance abuse treatment programs with Suboxone and Methadone. He decided to join this medication assisted treatment program because he was unable to afford treatment by other prescribers of Suboxone.

Objective 1

Can the implementation of a Medication Assisted Treatment (MAT) program with Suboxone for three months, help substance abusers decrease the use of illegal/illicit substances? (effectiveness)

All of the clients, except one, refrained from taking illegal and prescribed controlled substances. This client admitted to the use of prescribed benzodiazepine (Clonazepam), despite continuous warning about the potential life threating of drug interactions between Suboxone and Clonazepam (Table 5-8).

The effectiveness of the MAT program with Suboxone was evaluated for three months via a non-parametric Wilcoxon signed-rank test. Independent Variable: (Time):

pretest (before treatment with Suboxone) and posttest (in 1, 2, and 3 months after initiation of treatment). Dependent Variable: the use of prescribed and non-prescribed drugs (stimulants, sedatives, and opioids) and illicit drugs (cannabis, cocaine, methamphetamine, inhalants, hallucinogens, and heroin).

This test was conducted to evaluate whether a statistical difference exists between substance use (prescribed and non-prescribed drugs: stimulants, sedatives, and opioid) and illicit drugs (cannabis, cocaine, methamphetamines, inhalants, hallucinogens, and heroin) before and after the treatment with Suboxone. Descriptive statistics prior to treatment showed n=5, mean=1.00, SD=0.00; after 1month of treatment n=5, mean= 1.80, SD=0.447, p=0.046; after 2 months of treatment n=5, mean=1.80, SD=0.447, p=0.046; after 3 months of treatment n=5, mean=1.80, SD=0.447, p=0.046. The results of the NIDA quick screen responses to the participants' answers to their combined drug use were compared. They were determined to be the same for all three months and to be significant (p=0.046/p<0.05). This can be explained because one participant continued to use benzodiazepine throughout the course of the study. Other participants refrained from the intake of any drugs except the prescribed Suboxone.

Objective 2

Do the clients adhere to the MAT program?

All participating clients adhered to the MAT program. Adherence was measured through the patient's verbal interview with provider (each participant was asked, "Are you adherent to the intake of Suboxone? Do you take Suboxone as prescribed"?), the electronic database history for refills, and drug screening for monitoring the components of Suboxone in the patient's system.

Objective 3

Is the use of the MAT program acceptable/feasible for clients?

The CMR questionnaire was completed by each client at the beginning of the study. The questionnaire expanded the clients' beliefs of their motivation and readiness (M and R) for treatment with Suboxone. This was determined via the client's responses to the Motivation and Readiness (M and R) scale. The 12 items in the scale were used to measure motivation (the desire to quit using drugs) and readiness for treatment (the acceptance of the need for treatment in order to cease using drugs). The motivation and readiness scores consisted of 12 items (five motivation items & seven readiness items).

All clients felt that their drug use is a very serious problem in their life (a motivational factor needing to change). Eighty percent of participants strongly agreed and 20% agreed that they do not like themselves because of their drug use (motivational factor). Eighty percent of the participants strongly agreed and 20% agree with the statement that if they do not change, their life will keep getting worse (motivational factor). Sixty percent of participants strongly agreed and 20% agreed with the statement that they feel bad about their drug use and the way it has been hurting a lot of people (motivational factor). All participants strongly agreed that it is more important for them than anything else to stop using drugs (a readiness factor needing to change) and all strongly agreed that they are ready to deal with themselves in treatment (readiness factor). All strongly agreed that they have to do whatever they have to do to get their life straightened out (readiness factor). Eighty percent of them strongly agreed and 20% agreed that they do not see any other choice for help at this time except through some kind of treatment (readiness factor). All participants strongly agreed that they cannot stop their drug use with the help of friends, family, or religion and they need some kind of

treatment program (readiness factor). Eighty percent strongly agreed and 20% agreed that they are tired of using drugs and are ready to change (readiness factor). All agreed that they are willing to enter treatment as soon as possible (readiness factor).

The potential value for the combined motivation-readiness score is from 12-60 with a higher score indicating greater motivation and readiness for treatment. The patients had the following scores: 77/90, 72/90, 75/90, 70/90, 52/90 with mean score being 68.6.

The feasibility of the MAT program was assessed via the participants' responses to questions related to the use, access, helpfulness, and future use of Suboxone. All of the participants reported that they will continue the use of Suboxone because it is helpful to them to control their cravings to opioids and other substances, it is easy to use (oral intake), and easy to access through the pharmacy.

Discussion

Based on the results of the study, the implementation of a MAT program with Suboxone might change the life of many adult substance abusers. Suboxone can be helpful for the treatment of opioid use disorder. Several studies were conducted to investigate the effectiveness of Suboxone in decreasing the use of illegal substances. McKeganey et al., (2013) investigated the efficacy of buprenorphine-naloxone (Suboxon⊕) treatment in preventing relapses to heroin use. The researchers showed that the continuous use of Suboxone was highly effective for both short-term and long-term abstinenc€. Pinto et al., (2008) reports patient's preference towards buprenorphine rather than methadone because of the potential in the reduction of cravings. Bart (2012) states that Suboxone was more desirable in reducing the desire for heroin and other illegal/illicit drugs.

Few researches investigated adherence to buprenorphine (the component of Suboxone). Mattick et al., (2008) compared buprenorphine with methadone and a placebo. They concluded that buprenorphine is better than methadone in the retention to treatment. Hser et al (2014) investigated treatment retention among patient randomized to buprenorphine/naloxone compared to methadone. They concluded that retention in treatment with methadone is better due to better provision of clients (daily provision in methadone clients vs. weekly provision in Suboxone client). Sittambalam, Vij, & Ferguson (2014) investigated adherence to buprenorphine in outpatient settings. They concluded that Suboxone is an effective treatment method for heroin addiction and is a viable outpatient therapy option but individualized counseling is a main component in obtaining long term abstinence.

Hill et al., (2015) investigated acceptability and feasibility through patient's comments on the use of Suboxone. The researchers concluded that patients preferred buprenorphine-naloxone (Suboxone) over the other commonly used treatment drug (methadone) because of cognitive improvements. Pirastu et al., 2005 compared the perception of methadone and buprenorphine-naloxone users and showed that clients prefer Suboxone because of improved decision-making capacity.

McCance-Katz et al., (2006) compared the perception of methadone and buprenorphine-naloxone users. The authors concluded that clients prefer Suboxone because of fewer drug interactions. Rapelli et al., (2007) investigated the effects associated with the use of buprenorphine-naloxone. They concluded that buprenorphinenaloxone is associated with improved cognitive performance compared with methadone use.

The client's motives to join this MAT program are controversial. They verbalized the need to join this MAT program in order to obtain free and legalized medication (Suboxone) for an indefinite amount of time. Some limitations of this study include: short term follow up (three months vs. multiple years), the small sample size, the lack of available and/or reliable data, the belief that the patient's answers were based on their subjective perception (self-reported data) of expectations rather than objective data, and the insufficient period of performance of this study.

Conclusion

There are some benefits for the use of Suboxone in those who remained in the program for the three months period (the length of the program). The effectiveness of the program was determined by the participants refraining from the use of illegal substances. The adherence to the program was determined through the patient's self-report, the electronic database history for refills, and drug screening for monitoring the components of Suboxone in the patient's system. The feasibility of the program was determined by the client's responses about the use, access, helpfulness, and future use of Suboxone. A MAT program with Suboxone is recommended by most providers in regards to abstinence from heroin use and other illegal/illicit substances, improvement of cognition, and the overall quality of life, and social functioning.

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Table 1. Demo	graphics (N=3)		
Variable		n	%
	18 to 24 years	1	20
Age	25 to 34 years	2	40
	35 to 44 years	2	40
	Single	2	40
Marital Status	Married	2	40
	Living with partner	1	20
	Black/African American	0	0
Race	White/Caucasian	5	100
	Hispanic/Latino	0	0
	Employed Full time	1	20
Employment	Employed Part time	1	20
	Odd jobs	1	20
	Unemployed	2	40
Educational	High school drop out	2	40
Level	CED	2	10
	GED Some College	2	40
	Some College	1	20

Table 1. Demographics (N=5)

Table 2. Distribution of common responses Question Common	n responses	n	%
I am sure that I would go to jail if I did	strongly agree	3	60
not enter treatment	agree	2	40
not ontor troutmont	disagree	0	0
	strongly disagree	0	0
I am sure that I would have come to	strongly agree	3	60
treatment without the pressure of my legal	agree	2	40
involvement	disagree	0	0
	strongly disagree	0	0
I am sure that my family will not let me	strongly agree	5	100
live at home if I did not come to treatment	agree	0	0
	disagree	0	0
	strongly disagree	0	0
I believe that my family relationship will	strongly agree	0	0
try to make me leave treatment after a few	agree	0	0
months	disagree	5	100
	strongly disagree	0	0
I am worried that I will have serious	strongly agree	4	80
money problems if I stay in treatment.	agree	1	20
	disagree	0	0
	strongly disagree	0	0
Basically, I feel I have too many outside	strongly agree	1	20
problems that will prevent me from	agree	4	80
completing treatment (parents, spouse	disagree	0	0
relationship, children, loss of job, loss of	strongly disagree	0	0
income, loss of education, family problems, loss of place to live).			ي ج

Table 2. Distribution of common responses to questions addressing circumstances

Question	Common responses		n	%
Basically, I feel that my drug use is a	strongly agree	5 198	5	100
very serious problem in my life.	agree		0	0
	disagree		0	0
	strongly disagree		0	0
Often, I don't like myself because of	strongly agree		4	80
my drug use.	agree		1	20
	disagree		0	0
	strongly disagree		0	0
Lately, I feel if I don't change, my	strongly agree		4	80
life will keep getting worse.	agree		1	20
	disagree		0	0
	strongly disagree		0	0
I really feel bad that my drug use and	strongly agree		3	60
the way I have been living has hurt a	agree		2	40
lot of people.	disagree		0	0
	strongly disagree		0	0
It is more important to me than	strongly agree		5	100
anything else that I stop using drugs	agree		0	0
	disagree		0	0
	strongly disagree		0	0

Table 3 Distribution of common responses to questions addressing motivation

Question	Common responses	n	%
I don't really believe that I have to be	strongly agree	0	0
in treatment to stop using drugs, I can	agree	0	0
stop it anytime.	disagree	5	100
	strongly disagree	0	0
I came to this program because I	strongly agree	0	
really feel that I am ready to deal with	agree	5	100
myself in treatment.	disagree	0	
	strongly disagree	0	
I'll do whatever I have to do to get my	strongly agree	5	100
life straightened out.	agree	0	0
	disagree	0	0
	strongly disagree	0	0
Basically, I don't see any other choice	strongly agree	4	80
for help at this time except some kind	agree	1	20
of treatment.	disagree	0	0
	strongly disagree	0	0
I don't really think I can stop my drug	strongly agree	5	100
use with the help of friends, family or	agree	0	0
religion, I really need some kind of	disagree	0	0
treatment.	strongly disagree	0	0
I am really tired of using drugs and	strongly agree	4	80
want to change, but I know I can't do	agree	> 1	20
it on my own.	disagree	0	0
	strongly disagree	0	0
I'm willing to enter treatment as soon	strongly agree	5	100
as possible.	agree	0	0
·	disagree	0	0
	strongly disagree	0	0

Table 4 Distribution of common responses to questions addressing readiness

Substance	Yes	%
Cannabis (marijuana, pot, grass, hashish)	3	60
Cocaine (coke, crack)	1	20
Prescription stimulant (Ritalin, Concerta, Adderall, diet pills)	0	0
Methamphetamine (speed, crystal meth, ice)	1	20
Inhalants (nitrous oxide, glue, gas, paint thinner)	0	0
Sedatives or sleeping pills (Valium, Ativan, Xanax, Librium)	3	60
Hallucinogens (LSD, acid, mushrooms, PCP, ecstasy)	0	0
Street opioids (heroin, opium)	2	40
Prescription opioids (fentanyl, oxycodone, Percocet)	5	100

Table 5 Client self-reported drug use prior to the treatment with Suboxone (N=5)

Substance	Yes	%
Cannabis (marijuana, pot, grass, hashish)	0	0
Cocaine (coke, crack)	0	0
Prescription stimulant (Ritalin, Concerta, Adderall, diet pills)	0	0
Methamphetamine (speed, crystal meth, ice)	0	0
Inhalants (nitrous oxide, glue, gas, paint thinner)	0	0
Sedatives or sleeping pills (Valium, Ativan, Xanax, Librium)	1	20
Hallucinogens (LSD, acid, mushrooms, PCP, ecstasy)	0	0
Street opioids (heroin, opium)	0	0
Prescription opioids (fentanyl, oxycodone, Percocet, hydrocodone)	0	0

Table 6 Client self-reported drug use 1 month after treatment with Suboxone (N=5)

Substance	Yes	%
Cannabis (marijuana, pot, grass, hashish)	0	0
Cocaine (coke, crack)	0	0
Prescription stimulant (Ritalin, Concerta, Adderall,	0	0
diet pills) Methamphetamine (speed, crystal meth, ice)	0	0
Inhalants (nitrous oxide, glue, gas, paint thinner)	0	0
Sedatives or sleeping pills (Valium, Ativan, Xanax, Librium)	1	20
Hallucinogens (LSD, acid, mushrooms, PCP, ecstasy)	0	0
Street opioids (heroin, opium)	0	0
Prescription opioids (fentanyl, oxycodone, Percocet, hydrocodone)	0	0

Table 7 Client self-reported drug use 2 months after treatment with Suboxone (N=5)

Substance	Yes	100		%	2.1	
Cannabis (marijuana, pot, grass, hashish)	0		and the second se	0		
Cocaine (coke, crack)	0			0		
Prescription stimulant (Ritalin, Concerta, Adderall, diet pills)	0			0		
Methamphetamine (speed, crystal meth, ice)	0			0		
Inhalants (nitrous oxide, glue, gas, paint thinner)	0			0		
Sedatives or sleeping pills (Valium, Ativan, Xanax, Librium)	1			20		
Hallucinogens (LSD, acid, mushrooms, PCP, ecstasy)	0			0		
Street opioids (heroin, opium)	0			0		
Prescription opioids (fentanyl, oxycodone, Percocet, hydrocodone)	0			0		

Table 8 Client self-reported drug use 3 months after treatment with Suboxone (N=5)

Appendices



March 5th 2018

Marina Nedospasova Department of Nursing University of Alabama in Huntsville

Expedited (see pg 2) Exempted (see pg 3)
Full Review
Extension of Approval

Dear Ms. Nedospasova,

The UAH Institutional Review Board of Human Subjects Committee has reviewed your proposal, *The feasibility and acceptability of using a Medication Assisted Treatment (MAT) program with Suboxone for patients in a community behavioral clinic,* and found it meets the necessary criteria for approval. Your proposal seems to be in compliance with this institutions Federal Wide Assurance (FWA) 00019998 and the DHHS Regulations for the Protection of Human Subjects (45 CFR 46).

Please note that this approval is good for one year from the date on this letter. If data collection continues past this period, you are responsible for processing a renewal application a minimum of 60 days prior to the expiration date.

No changes are to be made to the approved protocol without prior review and approval from the UAH IRB. All changes (e.g. a change in procedure, number of subjects, personnel, study locations, new recruitment materials, study instruments, etc) must be prospectively reviewed and approved by the IRB before they are implemented. You should report any unanticipated problems involving risks to the participants or others to the IRB Chair.

If you have any questions regarding the IRB's decision, please contact me.

Sincerely,

suce title

Bruce Stallsmith IRB Chair Professor, Biological Sciences



HUNTSVILLE 4040 S. Memorial Parkway Huntsville, AL 35802 256 533.1970

April 3, 2018

University of Alabama in Huntsville Institutional Review Board 301 Sparkman Drive Huntsville, AL 35899

To Whom It May Concern:

I, Jeremy Blair, as the CEO of WellStone located in Huntsville, have reviewed Marina Nedospasova's (CRNP) IRB proposal. Upon review, I support her scholarly project going towards her DNP at UAH and look forward to reviewing the results of the project.

Sincerely,

Jeremy-Blair Chief Executive Officer WellStone, Inc.

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From: Gerald Melnick <g_melnick@yahoo.com> Date: February 21, 2018 at 7:07:44 PM CST To: "mvn0003@uah.edu" <mvn0003@uah.edu> Cc: Georgeaol <geodeleon@aol.com> Subject: Re: Fwd: Permission to use your CMR Scale

Yes, you have permission to use the CMR in your research on MAT.

Best, Gerald Melnick, Ph.D.



CONTINUING EDUCATION CERTIFICATE

This is to certify

Marina V. Nedospasova

has successfully completed the education activity

NP/PA 24-Hour Buprenorphine Waiver Training

This activity has been approved for 24.00 AANP CE; 18.00 of which may be applied towards Pharmacology

by the American Association of Nurse Practitioners. Activity ID # 16122474

This activity was planned in accordance with AANP CE Standards and Policies.

Date Completed: 12/25/2017 7:23 AM (GMT-06:00) Central Time (US & Canada)

Activity Sponsor/Provider: AANP

American Association of Nurse Practitioners P.O. Box 12846 Austin, TX 78711 (512) 4424262 Anne Norman, DNP, APRN, FNP-C, FAANP Vice President of Education and Accreditation

COLLABORATIVE INSTITUTIONAL TRAINING INITIATIVE (CITI PROGRAM) COMPLETION REPORT - PART 1 OF 2 COURSEWORK REQUIREMENTS*

* NOTE: Soores on this <u>Requirements Report</u> reflect quiz completions at the time all requirements for the course were met. See list below for details. See separate Transcript Report for more recent quiz scores, including those on optional (supplemental) course elements.

Name: Institution Affiliation: Institution Email:	Marina Nedospasova (ID: 7021435) The University of Alabama in Huntsville (ID: 3340) mvn0003@uah.edu		
Curriculum Group: Course Learner Group: Stage:		Institution nitiative	nal
 Record ID: Completion Date: Expiration Date: Minimum Passing: Reported Score*: 	28308534 28-Feb-2018 27-Feb-2021 80 91		
REQUIRED AND ELECTIVE MO History and Ethical Principles - S	BE (ID: 490)	DATE COMPLETED 27-Feb-2018 26-Feb-2018	SCORE 4/5 (80%) 4/5 (80%)
Defining Research with Human S History and Ethics of Human Sub The Federal Regulations - SBE (Assessing Risk - SBE (ID: 603) Informed Consent - SBE (ID: 604)	jects Research (ID: 408) ID: 502)	26-Feb-2018 26-Feb-2018 27-Feb-2018 27-Feb-2018	7/7 (100%) 5/5 (100%) 3/5 (80%) 3/5 (80%)

A 5/5 (100%) Privacy and Confidentiality - SBE (ID: 505) 27-Feb-2018 28-Feb-2018 4/5 (80%) Informed Consent (ID: 3) Populations in Research Requiring Additional Considerations and/or Protections (ID: 16680) 27-Feb-2018 5/5 (100%) 3/3 (100%) 28-Feb-2018 Records-Based Research (ID: 5) 2/3 (87%) Research Involving Pregnant Women, Fetuses, and Neonates (ID: 10) 28-Feb-2018 Research with Prisoners - SBE (ID: 506) 27-Feb-2018 4/5 (80%) 4/5 (80%) 28-Feb-2018 Research with Children - SBE (ID: 507) 28-Feb-2018 2/5 (40%) Internet-Based Research - SBE (ID: 510)

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Collaborative Institutional Training Initiative

COLLABORATIVE INSTITUTIONAL TRAINING INITIATIVE (CITI PROGRAM) COMPLETION REPORT - PART 2 OF 2 COURSEWORK TRANSCRIPT**

" NOTE: Scores on this <u>Transcript Recort</u> reflect the most current quiz completions, including quizzes on optional (supplemental) elements of the course. See list below for details. See separate Requirements Report for the reported scores at the time all requirements for the course were met.

Marina Nedospasova (ID: 7021435)

• Name:	Marina Nedospasova (ID: 7021430)		
 Institution Affiliation 			
 Institution Email: 	mvn0003@uah.edu		
		a Your make have a few me	
Curriculum Group:	Human Subjects Researchers		
 Course Learner Gro 	up: Same as Curriculum Group		
Stage:	Stage 1 - Basic Course		
Record ID:	26308534		
Report Date:	28-Feb-2018		
Current Score**:	81		
	and a second		
REQUIRED, ELECTIVE, AND	SUPPLEMENTAL MODULES	MOST RECENT	SCORE
History and Ethics of Human		26-Feb-2018	7/7 (100%)
Informed Consent (ID: 3)		26-Feb-2018	4/5 (80%)
History and Ethical Principles	- SBE (ID: 490)	27-Feb-2018	4/5 (80%)
Defining Research with Huma		26-Feb-2018	4/5 (80%)
Records-Based Research (ID		28-Feb-2018	3/3 (100%)
The Federal Regulations - SB	Contraction of the second s	26-Feb-2018	5/5 (100%)
Assessing Risk - SBE (ID: 50)	3)	27-Feb-2018	3/5 (80%)
Informed Consent - SBE (ID:	Contraction of the second se	27-Feb-2018	3/5 (00%)
Privacy and Confidentiality - S	BE (ID: 505)	27-Feb-2018	5/5 (100%)
Research with Prisoners - SB		27-Feb-2018	4/5 (80%)
Research Involving Pregnant	Women, Fetuses, and Neonates (ID: 10)	28-Feb-2018	2/3 (67%)
Research with Children - SBE	(ID: 507)	28-Feb-2018	4/5 (80%)
Internet-Based Research - SE	E (ID: 510)	28-Feb-2018	2/5 (40%)

Populations in Research Requiring Additional Considerations and/or Protections (ID: 16880) 27-Feb-2018 5/5 (100%)

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+ Name

Collaborative Institutional Training Initiative

CIRCUMSTANCES, MOTIVATION, and READINESS SCALES for SUBSTANCE ABUSE TREATMENT

CMR FACTOR SCALES Intake Version

CLIENT ID NUMBER		(1-8)
CLIENT GENDER 1=Male 2=Female		(9)
CLIENT ETHNICITY.		(10)
1=African American 2	=Hispanic 3=White 4=Other	
CLIENT AGE		(11-12)
		(13-14)
1=Non-crack cocaine 2=Crack	5=Alcohol 6=Poly Drug	
3=Opiates 4=Marijuana	8=Other	
TREATMENT MODAL	LITY	(15-16)
1=Drug Free Outpatient 2=Day Treatment 3=Methadone Maintenance 4=Short Term Residential 5=Long Term Residential 6=No Treatment Entered	7=Detoxification Only 8= Detoxification as Entry into Treatment 9=Hospital Inpatient 10=Referral Center 11=Other	
DATE OF ADMINIST	RATION	(17-22)

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NSTRUMENT VERSION)	(23
PROGRAM NUMBER	()	(24-25

How you feel can have a powerful effect on treatment. These feelings include your circumstances, the problems in your life, your feelings about yourself, and your feelings about treatment. Carefully consider each of the questions below and indicate how closely they describe your own thoughts and feelings.

Circle the number that best describes your response.

1	2	3	4	5	9
Strongly Disagree	Disagree	Neither Agree or Disagree	Agree	Strongly Agree	Not Applicable

CIRCUMSTANCES

1.	I am sure that I would go to jail if I didn't enter treatment.	12359 (26)
2.	I am sure that I would have come to treatment without the pressure of my legal involvement.	123459(27)
3.	I am sure that my family will not let me live at home if I did not come to treatment.	123459(28)
4.	I believe that my family/relationship will try to make me leave treatment after a few months.	123459 (29)
5.	I am worried that I will have serious money problems if I stay in treatment.	12359(30)
6.	Basically, I feel I have too many outside problems that will prevent me from completing treatment (parents, spouse/relationship, children, loss of job, loss of income, loss of education, family problems, loss of home/place to live, etc.).	123459(31)
моті	VATION	
7.	Basically, I feel that my drug use is a very serious problem in my life.	12359(32)
8.	Often I don't like myself because of my drug use.	123459(33)
9.	Lately, I feel if I don't change, my life will keep getting worse.	123459 (34)
10.	I really feel bad that my drug use and the way I've been living has hurt a lot of people.	123459(35)
11.	It is more important to me than anything else that I stop using drugs.	123459 (38)

1 Strong		3 Neither	4 Agree	5 Strongl	
Disagr	ee	Agree or Disagree		Agree	Аррисане
READ	INESS				
12.	I don't really believe t treatment to stop using anytime I want.	hat I have to be in g drugs, I can stop		1234	I59 <u>(</u> 37)
13.	I came to this program that I'm ready to deal	n because I really feel with myself in treatme	nt.	1234	459 (38)
14.	I'll do whatever I have straightened out.	e to do to get my life		1234	459(39)
15.	Basically, I don't see a at this time except sor	any other choice for he me kind of treatment.	:lp	1234	49 (40)
16.		an stop my drug use w mily or religion, I real atment.		1234	459(41)
17.		ing drugs and want to can't do it on my own.		1234	459(42)
18.	I'm willing to enter tr	eatment as soon as pos	ssible.	134	49 (43)

Questions 1-8 of the NIDA-Modified ASSIST V2.0

Instructions: Patients may fill in the following form themselves but screening personnel should offer to read the questions aloud in a private setting and complete the form for the patient. To preserve confidentiality, a protective sheet should be placed on top of the questionnaire so it will not be seen by other patients after it is completed but before it is filed in the medical record.

Que	stion 1 of 8, NIDA-Modified ASSIST	Yes	No
you	our <u>LIFETIME</u> , which of the following substances have ever used? Note for Physicians: For prescription medications, please report connectical use only.		
	Cannabis (marijuana, pot, grass, hash, etc.)		
ь.	Cocaine (coke, crack, etc.)	a state of the second	
c	Prescription stimulants (Ritalin, Concerta, Dexedrine, Adderall, diet pills, etc.)		
d.	Methamphetamine (speed, crystal meth, ice, etc.)		
a.	Inhalants (nitrous oxide, glue, gas, paint thinner, etc.)		
L	Sedatives or sleeping pills (Valium, Serepax, Ativan, Xanax, Librium, Rohypnol, GHB, etc.)		
8-	Hallucinogens (LSD, acid, mushrooms, POP, Special K, ecstaby, etc.)		
h.	Street opioids (heroin, opium, etc.)		
L	Prescription opioids (fentanyl, oxycodone (OxyContin, Percocet), hydrocodone (Vicodin), methadone, buprenorphine, etc.)		
j.	Other - specify:		

- Given the patient's response to the Quick Screen, the patient should <u>not</u> indicate "NO" for all drugs in Question 1. If they do, remind them that their answers to the Quick Screen indicated they used an illegal or prescription drug for nonmedical reasons within the past year and then repeat Question 1. If the patient indicates that the drug used is not listed, please mark "Yes" next to "Other" and continue to Question 2 of the NIDA-Modified ASSIST.
- If the patient says "Yes" to any of the drugs, proceed to Question 2 of the NIDA-Modified ASSIST.

	In the past three months, how often have you used the substances you mentioned (first drug, second drug, etc)?	Never	Once or Twice	Monthly	Weekdy	Dafy or Almost Dafk
•	Cannabis (marijuana, pot, grass, hash, etc.)	0	2	З	4	6
•	Cocaine (coke, crack, etc.)	0	2	З	4	6
•	Prescription stimulants (Ritalin, Concerta, Dexedrine, Adderall, diet pills, etc.)	0	2	Е	4	6
•	Methamphetamine (speed, crystal meth, ice, etc.)	0	2	3	4	6
•	Inhalants (nitrous oxide, glue, gas, paint thinner, etc.)	0	2	З	4	6
•	Sedatives or sleeping pills (Valium, Serepax, Ativan, Librium, Xanax, Rohypnol, GHB, etc.)	0	2	3	4	6
•	Hallucinopens (LSD, acid, mushrooms, PCP, Special K, ecstasy, etc.)	0	2	3	4	6
•	Street opioids (heroin, opium, etc.)	0	2	З	4	6
•	Prescription opioids (fentanyl, oxycodone [OxyContin, Percocet], hydrocodone [Vicodin], methadone, buprenorphine, etc.)	O	2	3	4	5
*	Other - Specify:	0	2	З	4	6

 For patients who report "Never" having used any drug in the past 3 months: Go to Questions 6-8.

For any recent illigit or nonmedical prescription drug use, go to Question 3.

з.	In the past 3 months, how often have you had a strong desire or urge to use (first drug, second drug, etc)?	Marver	Once or Twice	Monthy	Weekly	Dailty or Admost Dailty
2	Cannabis (marijuana, pot, grass, hash, etc.)	0	3	4	5	6
b .	Cocaine (coke, crack, etc.)	0	З	4	5	6
٤.	Prescribed Amphetamine type stimulants (Ritalin, Concerta, Dexedrine, Adderall, diet pilk, etc.)	0	В	4	5	6
d.	Methamphetamine (speed, crystal meth, ice, etc.)	0	Э	4	5	6
8.	Inhalants (nitrous oxide, glue, gas, paint thinner, etc.)	0	3	4	5	6
ſ.	Sedatives or sleeping pills (Valium, Serepax, Ativan, Librium, Xanax, Rohypnol, GHB, etc.)	0	Э	4	5	6
8-	Hallucinogens (LSD, acid, mushrooms, PCP, Special K, ecstasy, etc.)	0	Ε	4	5	6
h.	Street Opioids (heroin, opium, etc.)	0	З	4	5	6
1.	Prescribed opioids (fentanyl, oxycodone (OxyContin, Percocet), hydrocodone [Vicodin], methadone, buprenorphine, etc.)	0	Е	4	5	6
j.	Other - Specify:	0	З	4	5	- 6

4.	During the past 3 months, how often has your use of (first drug, second drug, etc) led to health, social, legal or financial problems?	Never	Once or Twice	Monthy	Weekly	Duily or Mmost Duily
2.	Cannabis (marijuana, pot, grass, hash, etc.)	0	4	5	6	7
b.	Cocaine (coke, crack, etc.)	0	4	5	6	7
<u>e</u>	Prescribed Amphetamine type stimulants (Ritalin, Concerta, Dexedrine, Adderall, diet pills, etc.)	0	.4	5	6	7
d.	Methamphetamine (speed, crystal meth, ice, etc.)	0	4	5	6	7
a.	Inhalants (nitrous oxide, glue, gas, pain thinner, etc.)	O	4	5	6	7
L	Sedatives or sleeping pills (Valium, Serepax, Ativan, Librium, Xanax, Rohypnol, GHB, etc.)	0	4	5	6	7
8.	Hallucinogens (LSD, acid, mushrooms, PCP, Special K, ecstasy, etc.)	0	4	5	6	7
h.	Street opioids (heroin, opium, etc.)	D	4	5	6	7
I.	Prescribed opioids (lentanyl, coycodone [OxyContin, Percocet], hydrocodone [Vicodin], methadone, buorescriptine, etc.)	0	4	5	6	7
	The second s	And Manhae Property of the Party	enter her and a second se	Free out on the transmission	100 C	
	Other - Specify: During the past 3 months, how often have you failed to do	0	4	5	e ył	7
j.		Neve	Once of h		Weekly	Daily or Amost Date
	During the past 3 months, how often have you failed to do what was normally expected of you because of your use of					Daily or Almost Daily
s.	During the past 3 months, how often have you failed to do what was normally expected of you because of your use of (first drug, second drug, etc)?	kee	Once or Twice	Monthly	Weekly	Dality or Almost Daliv
5. a.	During the past 3 months, how often have you failed to do what was normally expected of you because of your use of (first drug, second drug, etc)? Cannabis (marijuana, pot, grass, hash, etc.) Cocaine (coke, crack, etc.)	Neve	un Omce or Twice	en en Alomathia	L L Weekbr	a co co Coathy cor Alemont Dathy cor
5. a. b.	During the past 3 months, how often have you failed to do what was normally expected of you because of your use of (first drug, second drug, etc)? Cannabis (marijuana, pot, grass, hash, etc.) Cocaine (coke, crack, etc.) Prescribed Amphetamine type stimulants (Ritalin, Concerta,	Neve	un Chece of Twice	ch ch Monthly	L L Weekly	8 8 0 Alliny or Allinood
5. а. b. с. d.	During the past 3 months, how often have you failed to do what was normally expected of you because of your use of (first drug, second drug, etc]? Cannabis (marijuana, pot, grass, hash, etc.) Cocaine (coke, crack, etc.) Prescribed Amphetamine type stimulants (Ritalin, Concerta, Dexedrine, Adderall, diet pills, etc.)	0 Veree	u u Chece of Twice	en en Alomathia	L L Weekbr	a co co Coathy cor Alemont Diathy cor
5. a. b. c. d.	During the past 3 months, how often have you failed to do what was normally expected of you because of your use of (first drug, second drug, etc]? Cannabis (marijuana, pot, grass, hash, etc.) Cocaine (coke, crack, etc.) Prescribed Amphetamine type stimulants (Ritalin, Concerta, Dexedrine, Adderall, diet pills, etc.) Methamphetamine (speed, crystal meth, ice, etc.)	0 0 0 0	un un un Omoteon Truitoe	a a a Monthly	L L L Weekly	8 8 034hy or 8 8 8 Allmost
5. a. b. c. d.	During the past 3 months, how often have you failed to do what was normally expected of you because of your use of (first drug, second drug, etc]? Cannabis (marijuana, pot, grass, hash, etc.) Cocaine (coke, crack, etc.) Prescribed Amphetamine type stimulants (Ritalin, Concerta, Dexedrine, Adderall, diet pills, etc.) Methamphetamine (speed, crystal meth, ice, etc.) Inhalants (nitrous coide, glue, gas, paint thinner, etc.) Sedatives or sleeping pills (Valium, Serepax, Ativan, Librium, Xanax, Rohypnol, GHB, etc.) Hallucinogens (LSD, acid, mushrooms, PCP, Special K, ecstasy, etc.)	0 0 0 0 0 0 0	s s conceler Twice	a a a Monthy	2 2 2 2 Weekly	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
5. a. b. c. d. e. f.	During the past 3 months, how often have you failed to do what was normally expected of you because of your use of (first drug, second drug, etc)? Cannabis (marijuana, pot, grass, hash, etc.) Cocaine (coke, crack, etc.) Prescribed Amphetamine type stimulants (Ritalin, Concerta, Dexedrine, Adderall, diet pills, etc.) Methamphetamine (speed, crystal meth, ice, etc.) tehalants (nitrous coide, glue, gas, paint thinner, etc.) Sedatives or sleeping pills (Valium, Serepax, Ativan, Librium, Xanax, Rohypnol, GHB, etc.) Hallucinegens (LSD, acid, mushrooms, PCP, Special K, ecstasy, etc.)	0 0 0 0 0 0 0	s s Conce or Twice	e e e e Monthly	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	8 B B B B B B B B B B B B B B B B B B B
5. 8. 8. 8. 8.	During the past 3 months, how often have you failed to do what was normally expected of you because of your use of (first drug, second drug, etc]? Cannabis (marijuana, pot, grass, hash, etc.) Cocaine (coke, crack, etc.) Prescribed Amphetamine type stimulants (Ritalin, Concerta, Dexedrine, Adderall, diet pills, etc.) Methamphetamine (speed, crystal meth, ice, etc.) Inhalants (nitrous coide, glue, gas, paint thinner, etc.) Sedatives or sleeping pills (Valium, Serepax, Ativan, Librium, Xanax, Rohypnol, GHB, etc.) Hallucinogens (LSD, acid, mushrooms, PCP, Special K, ecstasy, etc.)	0 0 0 0 0 0 0	s s conceler Twice	a a a Monthy	2 2 2 2 Weekly	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8

Instructions: Ask Questions 6 & 7 for all substances ever used (i.e., those endorsed in the Question 1).

5.	Has a friend or relative or anyone else <u>ever</u> expressed concern about your use of (first drug, second drug, etc)?	No, never	Yes, but not in the past 3 months	Yes, in the past 3 months
2.	Cannabis (manjuana, pot, grass, hash, etc.)	0	Е	6
b _	Cocaine (coke, crack, etc.)	0	З	6
Ľ	Prescribed Amphetamine type stimulants (Ritalin, Concerta, Dexedrine, Adderall, diet pills, etc.)	0	Э	6
đ.		O	3	6
8.	tehalants (nitrous coide, glue, gas, paint thinner, etc.)	U	3	6
Ľ.	Sedatives or sleeping pills (Valium, Serepax, Xanax, Ativan, Librium, Rohypnol, GHB, etc.)	0	3	6
8-	A REAL PROPERTY AND A REAL	0	1	6
h.		0	3	6
L	Prescribed opioids (fentanyl, oxycodone [OxyContin, Percocet], hydrocodone [Vicodin], methadone, buprenorphine, etc.]	0	3	6
j _	Other - Specify:	0	3	6

The Journal of Psychosocial Nursing and Mental Health Services

guidelines for authors

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Criteria for authorship include contribution to:

- Conception and design, or
- Data collection, or
- Analysis and interpretation

AND

- Writing the manuscript, or
- Critical revision of the manuscript

All individuals identified as authors should meet the necessary criteria for authorship listed above, and all individuals who meet the criteria should be identified as authors. Those who do not meet the necessary criteria should be acknowledged. Any issues related to authorship must be resolved before the manuscript is submitted to the Journal.

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One author must be identified as the corresponding author, who is responsible for (1) ensuring all authors meet the authorship criteria and complete the required Author Statement-ICMJE Form for Disclosure of Potential Conflicts of Interest; (2) submitting the manuscript to the Journal and serving as the main contact during the review process; and (3) performing any related activities if the manuscript is accepted, such as reviewing proofs of the edited manuscript and answering editorial queries. The corresponding author will be identified as the primary contact in the published article.

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Acknowledgments

Any individuals who contributed to the manuscript but do not meet the necessary criteria for authorship should be acknowledged. Acknowledgments should be limited to those who helped extensively, such as providing statistical help, essential equipment, or translating references.

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individual in a photograph, such as placing black bars over the person's eyes, should not be used.

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Manuscripts should be prepared following the *Publication Manual of the American Psychological Association*, sixth edition (2010). Pages must be double-spaced, left justified, and with 1-inch margins on all sides.

Manuscripts should not include a title page or any other author-identifying or institutionidentifying information to ensure blind peer review. Authors are asked to use an "X" as a placeholder for identifying information until a final decision has been made.

IMPORTANT! Manuscript files uploaded for review should NOT include any of the authors' names or institutional affiliations to facilitate blind peer review. Files MUST include continuous page and line numbers.

Manuscript titles should be concise, specific, and informative, and contain the key points of the work. Overly general titles, as well as questions and declarative sentences, should be avoided.

Use of abbreviations should be limited to those that are commonly understood without explanation. All abbreviations must be spelled out at first mention in the text. Pharmaceuticals should be referred to by their generic names.

References

References should focus on the most recent and relevant literature, except for classic publications, and keep as close as possible to a maximum of 20.

References must adhere to the style specified in the *Publication Manual of the American Psychological Association*, sixth edition (2010). Authors are responsible for the accuracy of references, particularly author names and page numbers.

Names of journals should conform to PubMed/MEDLINE. The titles of those journals that are not listed in PubMed/MEDLINE must be provided in full. Journal titles should be cited as they existed at the time of publication.

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Each table must be numbered and cited consecutively in the text and should have a short descriptive title. Abbreviations used in tables that are not commonly understood terms should be explained in a legend. Material that is in the tables should not be repeated in

the text.

Manuscript Types and Requirements

Feature Articles

Feature articles describe new ideas, clinical strategies, research studies, ethical dilemmas, economic changes, and management directions. All manuscripts, including reports of research studies, must include clinical implications.

Feature article manuscripts should be no more than 15 pages in length, excluding references and figures/tables, and must include an unstructured abstract of approximately 150 words.

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The Journal also publishes the following sections:

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