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A Dialogue on Psychopharmacology in Behavioral Healthcare: The Acceptance of Medication-Assisted Treatment in Addictions

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I. Introduction

A. <u>Our review focuses on</u> the evolution, current status, and degree of acceptance of medications in the treatment of substance use disorders (particularly of opioid addiction); current barriers to medication utilization; potential strategies to enhance utilization; and principles that could be incorporated into clinical practice guidelines for medication-assisted treatment. Issues related to efficacy, indications and contraindications, court-mandated treatment, cultural perspectives, and use across the developmental life cycle are addressed in other papers.

II. Historical Perspectives on the Use of Medications in the Treatment of Addiction

- A. <u>Recovery Initiation versus Recovery Maintenance</u>: Successful withdrawal to a drug-free state (the primary preoccupation of 19th century treatment of opioid addiction) does not constitute a state of sustainable recovery and should not, by itself, be considered a treatment for addiction.¹
- B. Medication Acceptance and Recovery Role Models: When visible recovery role models promote an ineffective medication, the medication's lack of scientific support does little to reduce its potential cultural popularity (e.g., the Keeley Cure in the 1880s and 1890s); where medication-assisted recovery role models are professionally and culturally invisible, scientific evidence alone will not lead to a medication's professional or cultural acceptance (e.g., methadone).²
- C. <u>Cultural Ambivalence</u>: Failure to fully embrace medications as an adjunct in the treatment of addiction is fueled by continued cultural dissension about whether the cultural ownership of alcohol and other drug (AOD) problems should reside with medicine, religion, or law, e.g., is the addicted person best viewed as a patient, a sinner, or a criminal?
- D. <u>Stigma Unbound</u>: The social and professional stigma attached to particular drugs, particular patterns of addiction, and the medications used to treat addiction is inextricably linked to public perception of those most associated with the drug. Issues of race, gender, sexual orientation, social class, and religion profoundly influence such perceptions and must be disentangled in any effort to reduce stigma. Drug addiction is one of the most socially stigmatized conditions, e.g., viewed as more blameworthy and more dangerous than mental illness.³
- E. <u>Science and Stigma</u>: Scientific validation of a medication's positive effects on clinical and recovery outcomes does not mean inevitable acceptance by policymakers,

service professionals, patients, patients' families, or the public. Historically, stigma trumps science. The greatest reduction in medication-related stigma comes not from acceptance of the belief that addiction or mental illness are brain diseases, but through identification with a beloved figure in recovery or persons in recovery from one's family, social, or occupational network that benefited from the particular medication. Stigma flourishes in the absence of clear, consistent, multi-year educational campaigns that convey and affirm the validity of scientific studies of addiction and its effective treatment.

- F. <u>Fear of Harm in the Name of Help (Iatrogenesis)</u>: Resistance/ambivalence to medications is related to the long history of harm in the name of help within the history of addiction treatment and the resulting distrust of science in general and medications in particular within the addictions arena.⁵
 - 1. Announcements of medication breakthroughs related to addiction treatment are notoriously unreliable due to the cyclical stages of overselling, financial exploitation, disillusionment, and a backlash of therapeutic pessimism, e.g., fraudulent miracle cures; the alcoholism vaccine; carbon dioxide therapy, insulin therapy; early excessive claims for lithium, valium, etc. in the treatment of alcoholism.⁶
 - 2. Medications once used in addiction treatment were later integrated into the illicit drug culture as intoxicants, e.g., cannabis, cocaine, heroin, amphetamines, barbiturates, LSD.⁷
 - 3. Past medications used in addiction treatment have resulted in severe toxicity and lethality. 8
 - 4. Medications have often been nested within broader patterns of treatments with reported iatrogenic effects, e.g., prolonged institutionalization, sterilization, electro- and chemo-convulsive therapies, psychosurgery, and psychologically invasive therapy techniques.⁹
 - 5. One of the legacies of this history is that existing and new breakthroughs in the pharmacotherapeutic treatment of addiction may fail to be accepted and mainstreamed into clinical practice not because of lack of clinical effectiveness but due to unfounded fear of their potential iatrogenic effects. ¹⁰
 - 6. That early ineffective, harmful, and/or fraudulent medications used in the treatment of addiction wrapped themselves in the mantle of science (via fraudulent advertising or bad science) requires current clarification of who has the medical and moral authority within the US to make the definitive declaration of a medication's effectiveness or ineffectiveness.
- G. <u>Intergenerational Transmission of Resistance</u>: Fear of medications has been passed down intergenerationally within communities of recovery (from grandsponsors to sponsors to sponsees), and across generations of addiction professionals (professional elders to new counselors). ¹¹ Addictions counselors receive little training related to addiction treatment medications, ¹² which, combined with fear of using medications, produces a fundamental lack of curiosity about treatment options.
- H. <u>Management of Resistance</u>: Fear of medications is best managed by acknowledging and respecting its historical legitimacy and through rigorous programs that ensure medication efficacy, effectiveness, and safety.

- I. Experiential versus Scientific Knowledge: Tension within the addictions treatment/recovery field has existed for more than 160 years between fundamentally different ways of knowing: experiential knowledge and scientific knowledge (and the synthesis of the two within the realm of clinical knowledge). Efforts to reduce medication-related stigma and enhance medication acceptance must work through these different mediums of knowing, e.g., inclusion of scientific proof (efficacy and effectiveness studies) and living proof (the faces and voices of people in medication-assisted recovery).
- J. Medication and Pleasure: People addicted to alcohol and other drugs are culturally perceived as hedonists concerned only with their relentless pursuit of unearned pleasure. Cultural acceptance of a medication used to treat addiction is thus contingent upon the medication being perceived as not providing further pleasure or, preferably, denying pleasure from drug use (e.g., naltrexone in the treatment of opioid addiction), or punishing further drug use (e.g., disulfiram in the treatment of alcohol addiction). Any medication depicted as a "replacement" or "substitute" for a primary intoxicant will be culturally rejected (e.g., methadone perceived as "legal heroin" and rejected on the grounds that it extends such unearned pleasure). Such rejection is unwittingly reinforced by otherwise knowledgeable addiction treatment professionals equating the effects of heroin and methadone and viewing medication-assisted recovery as not "real" recovery.
- K. <u>Profile Transformation of Opioid Addiction</u>: The aging of long-tenured opioid addicts, the dramatic increase in Caucasian prescription opioid addiction, and the rise of the latter in non-urban areas and its rise among older adults mark significant trends in the history of opioid addiction in the US with unclear effects on the future of professional and social stigma, treatment issues (e.g., pain management), and trends in the use of medications in addiction treatment.¹⁴

III. Current Status of Medication-Assisted Treatment of Substance Use Disorders

- A. <u>Varieties</u>: Medications used in the treatment of addiction span:
 - *opioid agonists*, e.g., medications such as methadone (Methadose® and Dolophine®) used as aids in withdrawal from heroin or other short-acting opioids or used as maintenance agents to achieve metabolic stability, suppress cravings, and reduce the risk of relapse.
 - *partial agonists*, e.g., similarly used medications such as buprenorphine (trade name Subutex®) and buprenorphine and naloxone combination (trade names Suboxone®, Depakote®).
 - *opioid antagonists*, e.g., medications such as naltrexone that block the pharmacological effects of heroin and other opioids for 24-48 hours, or, in extended depot (injected/implanted) form, for up to four weeks.
 - *alpha-2-adrenergic agonists* such as clonidine and lofexidine that have been used as adjuncts in opioid detoxification.
 - *medications for management of acute withdrawal*, e.g., the use of benzodiazepines and anticonvulsant medications (carbamazepine, valproate) in alcohol withdrawal. ¹⁵
 - *aldehyde dehydrogenase (ALDH) inhibitors*, such as disulfiram (Antabuse®), that provide a chemical shield against impulsive use by eliciting toxic

- reactions (e.g., flushing, nausea/vomiting, increased heart rate) to even a small intake of alcohol; ¹⁶ disulfiram also has been used to prevent drinking-related relapse to cocaine use. ¹⁷
- Anti-craving agents, e.g., naltrexone (ReVia®, Vivotrol®, and Depade®), nalmefene, and acamprosate (Campral®) used in the treatment of alcoholism to reduce post-withdrawal cravings for alcohol and reduce the rewarding effects of alcohol. 18
- *Medications for co-occurring disorders*, e.g., antidepressants, mood stabilizers, and neuroleptic (anti-psychotic) and other medications used to treat co-occurring psychiatric disorders. ¹⁹
- Medications for nicotine dependence, e.g., nicotine-based gums, patches, nasal sprays, inhalers, lozenges, tablets, sustained release bupropion hydrocholoride (e.g., Zyban®), varenicline (e.g., Chantix®), and clonidine.²⁰
- B. <u>Scope and Limits</u>: Most medications in current use in the treatment of addiction are used primarily in the treatment of opioid and alcohol addiction. Few evidence-based medications exist for the treatment of other substance use disorders, but there are medications that hold promise for future treatment.²¹
 - There are 1,203 opioid treatment programs (OTPs) in 46 states (and the District of Columbia, U.S. Virgin Islands, American Samoa, and Puerto Rico), treating more than 260,000 patients on any given day. 22
 - A 2009 analysis provides the latest profile of OTPs in the US:
 - -- OTPs constitute only 8% of all U.S. addiction treatment facilities, but OTP patients constitute 23% of all patients in addiction treatment.
 - -- 50% of OTPs are operated by for-profit organizations.
 - -- Half of all OTP patients pay out-of-pocket for their own treatment, at an average annual cost of \$4,176 per year.
 - -- The number of patients admitted to OTPs in the United States grew dramatically between 1998 and 2008—influenced by the growth in forprofit OTPs and new patterns of opioid addiction, e.g., increased addiction to pharmaceutical opioids. ²³
 - Suboptimal dosing has been a pervasive theme within the modern history of methadone maintenance²⁴—a significant concern given the critical role optimal dose stabilization plays in achieving the best clinical outcomes.²⁵
 - In 2008, approximately 368,962 patients in the US were treated with buprenorphine (Suboxone®, Subutex®, or generic Subutex) for opioid addiction on any given day;²⁶ in the 12-month period ending November 30, 2010, 887,482 patients in the United States received prescriptions for buprenorphine.²⁷
 - Prescriptions for all alcoholism medications and buprenorphine for opioid addiction rose from 541,000 in 2003 to 2,620,000 in 2007 (42.9% average annual growth rate); alcohol treatment medications rose from 393,000 in 2003 to 720,000 in 2007 (12.9% average annual growth rate). These rates remain small compared to the size of the population experiencing substance use disorders. ²⁸
 - The use of disulfiram, naltrexone, and selective serotonin reuptake inhibitors (SSRIs) actually declined between 1994 and 2004 within private addiction

treatment programs, but a 2006 report found private sector treatment programs more likely to adopt the use of disulfiram, naltrexone, and SSRIs than public programs. Even with philosophical adoption at program level, only a small percentage of patients are actually prescribed these medications. ²⁹ Knudsen and colleagues reported that less than 50% of private addiction treatment programs used medications for the treatment of alcohol or opioid addiction. ³⁰

- Rates of adoption of medications by addiction treatment programs in 2007 were as follows: agonist medications (18.1%); naltrexone (21.2%); disulfiram (24.2%). Medication adoption was associated with accreditation, having a physician on staff or available contractually, and having Master's-level counselors. Adoption of buprenorphine has been associated with additional factors: use of naltrexone, for-profit status, hospital affiliation, and provision of services of acute withdrawal. 22
- In 2007, 49.7% of addiction treatment programs reported using SSRIs for treatment of a co-occurring mood disorder with use greatest in private nonprofit facilities, facilities that conducted psychiatric evaluations at intake, and facilities using a medical model and providing access to physicians; lowest rates of use were in for-profit facilities and in facilities with higher percentages of criminal justice referrals.³³
- SSRIs are the most frequently used medication in addiction treatment, and centers that use SSRIs are more likely to later adopt the use of other medications.³⁴

C. Other Emerging Trends:

- There is a clear trend toward the use of medications in combination. ³⁵
- There are early signs that the addiction field is moving to transcend categories of "drug free" and medication-assisted treatment and to define recovery for patients in the latter within the context of medication maintenance rather than cessation of such maintenance. 36
- The mainstreaming of addiction medications into primary care without availability of ancillary support services or only limited scope and duration of such services³⁷ is resulting in using medication for brief respites in addiction careers (a safety net when drug money runs out) rather than for recovery initiation. The mainstreaming of such medications has been driven by Congressional legislation (Drug Abuse Treatment Act of 2000) with the interest of having physicians in private practice treat chronic opioid addiction. The legislation did not encourage the use of medication in tandem with other well-researched ancillary support services, based on federal publications such as the *Principles of Drug Addiction Treatment* by the National Institute on Drug Abuse. The legislation was limited in indicating that a physician, who would receive a waiver under the legislation, would only need to demonstrate a "capacity to refer a patient" for other services aside from the medication that was being prescribed within the practice setting. The policy issues in this area would appear to focus on access to treatment as opposed to the quality of treatment that is given to the individual.

IV. Degree of Current Acceptance/Obstacles to Acceptance of Medication-Assisted Treatment

A. <u>General</u>: The major barrier to adoption of medication-assisted treatment of substance use disorders is the prevailing belief that drug addiction should not be treated (or replaced) with another "drug" and the failure to distinguish self-administration of a psychoactive substance as a "drug" from the professionally supervised use of a "medication."³⁸

B. Those in Need of Treatment:

- Medication-assisted treatment (with methadone or buprenorphine) voluntarily attracts more people addicted to heroin and other short-acting opioids than any other addiction treatment modality, but the majority of those addicted to heroin or prescription opioids are not currently in treatment.³⁹
- Popular and professional conceptions of methadone as a "legal substitute for heroin," street myths about methadone (e.g., "it rots your bones"), and the view that methadone maintenance (MM) is a "last resort" inhibit timely treatment seeking by those who could benefit from MM
- Surveys of opioid users confirm the perception of benefits of methadone maintenance but also reveal concerns about the perceived negative physical effects of methadone, the perception that methadone is more addictive than heroin, and the time demands of methadone maintenance clinic compliance.

C. Patients Enrolled in Treatment:

- A major obstacle to medication adherence is the failure of patients and their families to understand opioid addiction as a brain disease and the importance of medication adherence in successful recovery management.
- Patient non-adherence is a major concern in the pharmacotherapeutic treatment of all substance use disorders. 41
- Problems with patient adherence to medication protocols are being transcended by new depot formulations that do not require daily selfadministration.
- Social/professional stigma attached to the medication is a universal feature of the experience of methadone maintenance patients in the United States. 43
- Patient misconceptions and shared street lore about methadone contribute to premature treatment termination. Patient surveys find that while many believe methadone has positively affected their lives, they also believe that methadone could hurt their health and that its use should be terminated as soon as possible.⁴⁴
- Nearly 60% of methadone patients are "fully compliant" in spite of a regimen more demanding than that required of virtually any other medication protocol.⁴⁵
- MM treatment access can be limited—even for the most highly motivated patient—by lack of geographical proximity, inadequate treatment capacity/waiting lists for treatment admission, restrictive admission criteria, the demand for daily attendance, limited timeframes within which individuals can receive medication or pick up take-home medication, shaming rituals (e.g., standing in line on public streets, frontally-observed urination for drug testing), lack of insurance and prohibitive service fees, homelessness, child

- care, and language and cultural barriers. 46 Access to buprenorphine is limited by its relatively high cost. 47
- A number of policymakers are reluctant to engage the state legislative bodies as a means of ensuring that access to such care is provided. It is generally tolerated that many residents of a state will travel to an adjoining state to gain access to care. The state of Mississippi provides a case in point where one certified Opioid Treatment Program exists in the state, and it is known that many of its residents travel to adjacent states such as Alabama and Louisiana to gain access to care.

D. Scientific and Regulatory Panels:

- Scientific reviews of the pharmacotherapeutic treatment of alcohol dependence have affirmed the value of four medications: 1) disulfiram (where not medically contraindicated and for those with family/clinical support to supervise consumption), 2) acamprosate, 3) oral naltrexone, and 4) once-monthly injectable, extended release naltrexone. 48 Some efficacy has also been demonstrated for topiramate, baclofen, ondansetron, and quetiapine in the treatment of alcohol dependence. 49
- Methadone maintenance has been evaluated and endorsed in scientific and technical reviews of the American Society of Addiction Medicine (1990), the Government Accounting Office Report (1990), the Office of Technology Assessment of the United States Congress (1990), the American Medical Association Council on Scientific Affairs (1994), the National Institutes of Health Consensus Conference on Effective Treatment of Heroin Addiction (1997), the American Public Health Association (1997), the American Medical Association House of Delegates (1997), the Office of National Drug Control Policy (1990, 1999), the National Institute on Drug Abuse (1999), and the World Health Organization (2001).
- The FDA has approved three forms of buprenorphine for such treatment: sublingual tablets of buprenorphine (Subutex), a tablet combination of buprenorphine and naloxone (Suboxone) designed to reduce problems of diversion and illicit use; and a sublingual film of buprenorphine and naloxone (Suboxone). Buprenorphine implants are also being tested for potential use in the treatment of opioid addiction. ⁵¹

E. Addiction Treatment Professionals and Organizations:

- In general, addiction treatment professionals are more supportive of the use of medications for co-occurring disorders than for the treatment of addiction. ⁵²
- Counselors with greater levels of education and experience have the most positive attitudes toward the role of medications in recovery initiation and maintenance.⁵³
- Duration of methadone maintenance declines in tandem with increased abstinence-orientation of the program philosophy⁵⁴ of counselors⁵⁵ and of physicians⁵⁶—a factor of great concern given high relapse and mortality rates following cessation of methadone maintenance.⁵⁷
- While 70% of patients being treated for co-occurring substance use and psychiatric disorders receive medication, only 34.4% of patients treated for

- opioid dependence and 24% of patients being treated for alcohol dependence in the US receive medication.⁵⁸
- Subtherapeutic dosing (below 60 mgd) and professional pressure on patients to taper continue to prevail in many opioid treatment programs in spite of efforts to reduce such practices. The ambiguity and conflict over the precise goals of addiction treatment (and their measurement) complicate the evaluation of medication-assisted treatment of addiction. Such ambiguity reflects and contributes to conflicting policy and clinical treatment goals. Illustratively, in the field of general healthcare, physicians in hospitals will work to treat patients who may continue to be "non-compliant" with recommended treatment regimens, e.g., the hypertensive patient who fails to eat healthy foods or exercise. Rarely does the physician terminate the use of hypertensive medication even in non-compliant patients. In contrast, within the opioid addiction treatment arena, patients have often been expelled from methadone treatment for non-compliance, and programs who continue to provide medication in the face of non-compliance are chastised as providing harm reduction rather than effective clinical care.
- Many addiction treatment programs and recovery support institutions that do not use medications refuse to admit methadone patients in need of their services or to refer their own patients who could benefit from adjunctive, medication-assisted treatment.⁶¹
- The historically negative attitudes of residential treatment programs toward methadone may be softening, 62 and there are increased efforts to integrate methadone patients into residential treatment programs. 63
- Methadone dose and positive attitudes toward the option of sustained MM treatment are the most critical factors influencing MM retention, which in turn influences long-term recovery outcomes.⁶⁴
- Counselor recovery status does not predict attitudes towards buprenorphine, but degree of adherence to a 12-step treatment philosophy is associated with less acceptance of buprenorphine. 65
- New consensus definitions of recovery are recognizing the recovery status of medication-stabilized patients who meet other criteria for recovery. 66

F. Treatment Referral Resources and External Authorities:

• Many criminal justice and child welfare authorities refuse to accept medication-assisted treatment, place arbitrary limitations of time on such treatment, or require reductions in medication dosage as a condition of "graduation" or release. There is enormous suspicion among representatives from such systems to even acknowledge the use and value of such medications to treat chronic opioid addiction. The general view is that it does not even fall within the parameters of their responsibility. As a jail administrator once put it, "How can we be expected to solve the problem that the general society can't even touch?"

G. Diverse Communities of Recovery:

Attitudes within Alcoholics Anonymous and SMART Recovery⁶⁷ toward the
use of medications for the treatment of alcohol dependence and co-occurring
psychiatric disorders have become more accepting.⁶⁸

- Narcotics Anonymous (NA) Bulletin # 29 characterizes persons on medically supervised methadone or other maintenance medications as being "under the influence of a drug," "using," and "not clean" and affirms that NA's definition of abstinence precludes the use of methadone as a treatment for opioid dependence.
- Prevailing attitudes toward methadone and more recently buprenorphine are
 drawn from members' past use of these medications within the illicit drug
 culture for purposes of intoxication, respite rather than recovery, or selfmanaged withdrawal. The resulting perception of these medications as part of
 "the life" will not change through exposure to scientific studies of methadone
 but by relationships with people for whom these medications have been or are
 a crucial support in their recoveries.
- Although methadone patients seeking recovery support from local NA groups may be denied the right to speak in meetings, the right to hold service positions, or the right to serve as a sponsor to other NA members, there are patients in medication-assisted treatment who continue to use NA for support—sharing or withholding their medication status.⁷¹
- Addiction professionals are caught in "contradictory expectations that they
 embrace the latest scientific findings on opioid addiction treatment while
 assertively linking their patients to recovery mutual aid groups whose attitudes
 and practices may contradict these very findings."
- Patients in medication-assisted treatment for opioid addiction have created their own education and advocacy organizations (e.g., Advocates for the Integration of Recovery and Methadone [AFIRM, founded 1995], the National Alliance for Medication Assisted Recovery [formerly the National Alliance of Methadone Advocates, founded 1988], and Advocates of Recovery through Medicine [ARM, founded in 1999-2000]), as well as organizations inspired by patient advocates (National Alliance of Advocates for Buprenorphine Treatment, founded 2005).
- There are recovery mutual aid groups and related peer recovery support specifically for people in medication-assisted recovery (e.g., Methadone Anonymous, Medication Assisted Recovery Support), and protocols have been suggested for increasing involvement of patients in medication-assisted treatment in mainstream recovery mutual aid fellowships. To
- Persons in medication-assisted recovery have filled leadership positions within advocacy organizations such as Faces and Voices of Recovery.
- Consumer guides on medication-assisted treatment are being developed by grassroots recovery community organizations. ⁷⁶

H. Public/Local Communities:

- Media portrayal of methadone maintenance continues to focus on the least stabilized patients and the lowest quality treatment programs, e.g., *Methadonia*. Generally speaking, there have been a far greater number of lurid stories about patients in treatment in community-based settings than stories of successful recovery.
- Methadone maintenance patients experience discrimination in such arenas as education, employment, housing, health care, and government benefits.⁷⁷

Opioid treatment programs face significant Not-In-My-Backyard (NIMBY)related resistance related to initial siting and relocation decisions. Many
local community planning commissions have adopted zoning ordinances
against the development of Opioid Treatment Programs. Fortunately and more
recently, such zoning ordinances have been overturned in the courts as a
violation of the Americans With Disabilities Act.

I. Policymakers and Payors:

- It is a point of interest that the Nixon Administration funded the major expansion of methadone maintenance treatment through the Special Action Office for Drug Abuse Prevention (SAODAP).
- Congress subsequently approved legislation in 1974 regulating the Opioid
 Treatment System—a network of local clinics then known as Methadone
 Maintenance Programs. State policymakers also developed regulations to
 govern the use of medications like methadone.
- In spite of the evidence in support of the use of these medications, which clearly reduce costs to the government at all levels in addition to the society, there are still many states that will not provide third-party public reimbursement (Medicaid) for such treatment services. Accordingly, most patients in proprietary treatment programs make out-of-pocket payments since there is no insurance available to them. Additionally, where states do provide access to such third party reimbursement, such systems become vulnerable to cyclic swings in funding cutbacks. State legislators typically look to cut such entitlement program reimbursement if access to care increases, placing a further drain on resources.
- Only 5 state Medicaid programs offer coverage for all recommended nicotine cessation pharmacotherapies as well as individual and group counseling; 38 states offered coverage for one form of treatment (medication or counseling). Most health plans cover medications for alcohol dependence, one-third exclude buprenorphine for treatment of opioid dependence, and 55% place it in the highest cost tier.
- Some government agencies (e.g., Department of Transportation) discriminate against MM patients for reasons not supported by medical science (e.g., refusal of a commercial driver license (CDL) to a highly stabilized methadone patient). In an interesting policy divergence, state legislators are passing restrictions for CDL use intrastate (Maine 2011) based on the fact that methadone is being prescribed increasingly for pain management. There have also been sporadic reports of methadone implicated in vehicular accidents and deaths. It is interesting to note that CDL restrictions do not apply to other equally powerful prescription opioids.
- There is a trend toward increased support of medication-assisted treatment by single state authorities overseeing addiction treatment, but adoption efforts lack a clear strategy.
- There is no other area of medical practice other than methadone maintenance in which government policymakers have dictated to physicians who they may medicate, how many patients they can medicate, at what dosage, what laboratory tests must be conducted, what ancillary services must be provided,

and the length of treatment. ⁸² To some degree and as a twist of public policy face, such requirements may have inadvertently protected the integrity of the treatment system. One piece of evidence that clearly comes to the surface is the recent and significant increase in the prescribing of methadone for pain management from 2000 to 2010. There have been four nationally published reports on the topic of methadone-associated mortality, clearly indicating that the increase in mortality is directly connected to the prescribing of methadone for pain management as opposed to addiction treatment. According to recent national data, there are more than twice as many patients receiving methadone for pain management as there are patients in registered Opioid Treatment Programs.

• There is greater concern with diversion of medication into the illicit drug culture than in how to increase access to medication-assisted treatment. This anomaly was noted in the Institute of Medicine report on Federal Regulation of Methadone Treatment (1995). While there may have been early concerns by enforcement agencies at the federal and state level about methadone diversion from the Opioid Treatment Programs, such concerns are not in evidence at the time of this writing. There is, however, increasing concern about the diversion of methadone via its prescription for pain management.

J. Obstacles to Acceptance of Medication-Assisted Treatment

- There is fear on the part of addiction counselors that smoking cessation during treatment will increase risk of relapse to other drug use. Smoking remains a part of the staff culture in some addiction treatment programs; 20.5% of addiction counselors smoke. There is the perception that it is not important to compare smoking to other drug addictions and concern that there is no time or reimbursement for smoking-related counseling. 83
- The perception of addiction as a characterological weakness (e.g., self-centeredness, hedonism, recklessness, laziness) and that medication is a technological substitute that may prevent the needed transformation in character, values, and relationships.
- "Inconsistent with our treatment philosophy" remains a major obstacle to the adoption of medications in the treatment of addiction. 85
- Major barriers for out-of-treatment persons who could benefit from but do not seek methadone maintenance include waiting lists, lack of insurance or income to pay fees, lack of photo identification, fear of a rigorous and potentially prolonged treatment, and fear of stigma attached to methadone maintenance.
- Physicians and other health care personnel are resistant to treating patients with chemical addictions because of their beliefs that such patients will "be drug seeking, demanding, manipulative, irresponsible, and respond poorly to treatment."
- Obstacles to prescribing addiction treatment medications include physician perceptiveness of their limited effectiveness, inadequate marketing and information dissemination about the medications, concerns about adverse side effects, and concerns about the high price of some medications.

- Lack of organizational/leadership support within addiction treatment programs is a critical factor in failure to adopt pharmacotherapeutic treatment of substance use disorders, e.g., adoption of naltrexone in treatment of alcohol dependence.
- K. <u>Summary of Methadone Maintenance Status</u>: Trapped between medical and moral/criminal models of problem definition and resolution, methadone maintenance has never achieved full legitimacy as a medical treatment by the public, health care professionals, and the recovery community in spite of the scientific studies supporting it; the person enrolled in methadone maintenance has never received full status as a "patient"; and the methadone clinic has yet to be viewed as a place of healing on par with hospitals or outpatient medical clinics. ⁹⁰

V. Strategies for Increased Medication Acceptance

- A. <u>Design</u>, <u>conduct</u>, <u>and evaluate a national educational campaign</u> on the role of medication and adjunctive support services in long-term recovery with subcampaigns aimed at key social institutions: government, law, medicine, social services, business and industry, faith communities, media outlets, electronic social networks, and communities of recovery.
 - Develop PSAs related to medications, treatment, and recovery for use in public campaigns, e.g., Recovery Month PSAs.
- B. Encourage and support patient advocacy, e.g., medication-assisted recovery advocacy organizations and involvement of patients/families in medication-assisted treatment within the recovery advocacy movement.
- C. <u>Continue research on clinical effectiveness and cost-effectiveness</u> with greater emphasis on clarity of indication and contraindications and effects on long-term recovery outcomes, ⁹¹ clearer science-based clinical guidelines on the use of medications in the treatment of adolescent substance use disorders, ⁹² and science-based guidelines to assist patients who are considering tapering off of their medication.
 - Address question of optimal duration of medication maintenance based on scientific studies that have evaluated outcomes across periods of maintenance.
- D. <u>Create rapid response team</u> to respond to media stories and public presentations that include erroneous information about medications used in the treatment of addiction, including overselling of what a medication can do in the absence of other treatment and recovery supports.
- E. <u>Promote broad strategies of quality improvement</u>. Medication adoption could be enhanced by increasing accreditation of addiction treatment programs; increasing percentage of trained Master's level addiction counselors; enhancing counselor retention; increasing representation and broadening role of physicians in addiction treatment; and building linkages with primary care physicians.⁹⁴
- F. Emphasize the conceptualization of addiction as a chronic disease. Recent efforts to recast addiction as a chronic illness and to shift addiction treatment from models of acute care to models of sustained recovery management may provide a more viable framework to understand the role of medications in long-term recovery from addictions. Educate patients, families, professionals, policymakers, and the public

- about addiction medications whose positive effects, like those in treatment of asthma, hypertension, and diabetes, last only as long as they continue to be self-administered as prescribed—sustained self-care versus cure.
- G. <u>Disseminate information about addiction treatment outcomes</u> with and without medication assistance, e.g., attraction to treatment; treatment duration; recovery, readdiction, and mortality rates.
- H. <u>Promote recovery-oriented methadone maintenance</u>⁹⁶ to elevate the quality of medication-assisted treatment of opioid addiction and transcend the isolation of OTPs from the larger addictions treatment field, local recovery mutual aid societies, and other local community institutions. Examples include:
 - -- Emphasize what medication in combination with clinical and peer support can add to one's life rather than what it reduces or deletes from one's life.
 - -- Stop kicking people out of treatment for exhibiting symptoms of the disorder for which they are being treated. 97
 - -- Implement research-based protocols to enhance retention of patients in medication-assisted treatment. 98
 - -- Provide a broad menu of medical, social, and peer recovery support services with the medication protocol. ⁹⁹
 - -- Conduct rigorous post-treatment monitoring and early re-interventions with all admitted patients to reduce post-discharge mortality rates and increase long-term recovery outcomes. 100
- I. <u>Elevate medication-assisted recovery outcomes</u> via assertive post-treatment monitoring, support, assertive linkage to recovery communities, and when needed, early re-intervention for all patients regardless of discharge status. ¹⁰¹
- J. <u>Promote regulatory reform</u> to increase access to interim methadone maintenance and office-based medical management of stabilized patients.
- K. <u>Promote smoking cessation within addiction treatment</u>: Provide regulatory and financial incentives to integrate the following into all addiction treatment programs: smoking-related education/training of all addiction professionals; comprehensive smoking bans in all addiction treatment campuses; evaluation of smoking status and degree of motivation to quit of all patients at intake; education linking smoking cessation to recovery prognosis; and a motivational intervention that includes advice on how to stop smoking, smoking-related counseling, and availability of pharmacotherapy to aid smoking cessation. ¹⁰²
- L. Elevate the availability and quality of patient education.
 - Develop presentation materials and self-instructional materials on medicationassisted treatment that challenge myths and folklore, present an accurate picture of the scientific studies of addiction treatment medications, and convey the faces and voices (experience, strength, and hope) of persons in medication-assisted treatment.
 - Explore ways to nationally replicate the Medication Assisted Recovery Support (MARS) model of peer education. (Note: SAMHSA has approved the use of 2011 RCSP Supplemental Funding to create the MARS Training Institute at the Albert Einstein College of Medicine. Staff and patients from ten methadone programs around the US will be brought to the Bronx to learn how to create MARS-type Peer Recovery Support Programs around the US.)

M. Elevate medication-focused professional education and training.

- Expand brief physician training with mentoring from more experienced physicians (e.g., wide replication of process used in Buprenorphine Office-Based Practice Trial and NIDA's Clinical Trials Network (CTN) process to enhance adoption of the use of buprenorphine). 103
- Enhance knowledge and skills of addiction professionals related to pharmacotherapy by integrating related education/training in all addiction studies programs and requiring medication updates as part of regular CEU requirements from credentialing and licensing bodies.
- Develop a packaged training program on medication-assisted treatment and recovery to be disseminated through the Addiction Technology Transfer Centers to addiction treatment referral sources, with a special emphasis on the criminal justice system and child welfare system.

N. Educate policymakers.

- Extol cost-effectiveness of pharmacotherapeutic treatment of addiction ¹⁰⁴ and effects of health care reimbursement policies on help-seeking. ¹⁰⁵
- Assure availability of insurance benefits and public funding (e.g., Medicaid) for medications and other ancillary supports used in the treatment of addiction.
- O. <u>Utilize patients in recovery as educational and advocacy resources</u>. We view the use of patients who currently use or have used medication as a critical support to their recoveries as key resources in all of the above strategies.
 - Engage Faces and Voices of Recovery and AATOD to provide leadership development and public/professional education skills of current and former patients in medication-assisted recovery, e.g., expand work that AATOD has done with Vista Pharmaceuticals to train patient advocates to speak in public about MAT.

VI. Principles Related to Practice Guidelines for Medication-Assisted Treatment of Substance Use Disorders

A. Formulate principles that can be used in the development of practice guidelines, such as:

- <u>Care not control</u>: The clinical rationale for the use of medications must be reframed from what they suppress (e.g., withdrawal symptoms, crime, infectious disease transmission) to what they promote (metabolic stabilization, recovery initiation/maintenance, enhanced quality of personal/family life).
- Patient choice/partnership: There needs to be a balance of responsibility between caregiver and patient as the individual is admitted into a therapeutic environment and is encouraged to remain as long as the individual will benefit from such care. It springs from a dynamic of compassionate care as opposed to controlling the individual, while preserving the elusive balance of engaging the patient during different periods in the treatment and recovery process.
- <u>Safety</u> via monitoring and supervision.
- <u>Treatment alternative or treatment adjunct</u>: Medications may be considered an adjunct to other treatment or an alternative to specialized addiction treatment (e.g., the effectiveness of naltrexone in the treatment of alcohol

- dependence without specialized behavioral/counseling interventions). ¹⁰⁷ Psychosocial support services can be added to medications (e.g., methadone maintenance) to enhance recovery outcomes. ¹⁰⁸
- <u>Dose and duration</u>: Patients, families, referral sources, treatment providers, and policymakers need to be educated on the importance of optimal doses of medications and optimal duration of medication support.
- Availability and scope of ancillary services: The clinical balance here is understanding when such services are critical and when they are no longer necessary for the patient. This is the art of treatment that draws upon scientific evidence and clinical experience.
- <u>Potent service combinations and sequences</u>: Medication and particular psychosocial supports may generate better outcomes than either intervention in isolation.
- <u>Culture of recovery</u>: Medications need to be wrapped within a vibrant culture of recovery that supports sustained remission of substance use disorders and enhancements in global health and quality of life.
- Continuity of contact and support over time and across treatment episodes.
- Recovery planning: Very early in treatment, patients need to be involved in the development of a lifetime recovery plan, which should include getting the most out of treatment and then eventually moving on to tapering or medical maintenance depending on the individual.

SUMMARY

Given what has been stated throughout the course of this paper, there is a need to provide a broad and sustained public and professional education about what addiction is, how it differs from use and dependence, and the positive role that medications can play in long-term addiction recovery. There are positive trends toward gradual increases in understanding of addiction as a medical disorder; however, these can only be maintained through sustained efforts at professional and public education.

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