

**SAN MATEO COUNTY MENTAL HEALTH
CCISC INITIATIVE**

CHANGE AGENT CURRICULUM

SERVICE PLANNING AND PRACTICE GUIDELINES

**CO-OCCURRING PSYCHIATRIC AND SUBSTANCE
DISORDERS**

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Introduction

During the past two decades, as awareness of individuals with co-occurring psychiatric and substance disorders has increased, there has been a steady accumulation of data to permit the development of both evidence- based and consensus-based best practice models for the treatment of these individuals. These ‘best practices’ need much more study, but they are sufficiently well developed at present that it is possible to use them to formulate coherent practice guidelines for assessment, treatment, and psychopharmacology of individuals with co-occurring disorders. These practice guidelines are outlined in this document. Before delineating the practice guidelines themselves, however, it is important to describe the data-based and consensus-based foundation in the literature that supports them. This evidence base incorporates the following principles: (Minkoff, 2000):

- 1. Dual diagnosis is an expectation, not an exception.** Both the Epidemiologic Catchment Area survey (Regier et. al., 1990) and the National Comorbidity Survey (Kessler et. al., 1996) support the high prevalence of comorbidity in both mentally ill populations and substance disordered populations. 55% of individuals in treatment for schizophrenia report lifetime substance use disorder (Regier et. al., 1990), and 59.9% of individuals with substance disorder have an identifiable psychiatric diagnosis (Kessler et. al., 1996).
- 2. The population of individuals with co-occurring disorders can be organized into four subgroups for service planning purposes, based on high and low severity of each type of disorder.** (NASMHPD/NASADAD, 1998; Ries & Miller, 1993). In 1998, the National Association of County Mental Health Program directors and the National Association of County Alcohol and Drug Abuse Directors arrived at an unprecedented consensus to use this “four quadrant” model for service planning purposes.
- 3. Treatment success involves formation of empathic, hopeful, integrated treatment relationships.** (Drake et. al., 1993, 2001 Minkoff, 1998) This principle derives from analysis of multiple program models. Integrated treatment does not imply a single type of intervention, so much as the capacity, in the primary treatment relationship, to integrate appropriate diagnosis-specific interventions for each disorder into a client-centered coherent whole, with the ability to modify interventions for each disorder to take into account the other.
- 4. Treatment success is enhanced by maintaining integrated treatment relationships providing disease management interventions for both disorders continuously across multiple treatment episodes, balancing case management support with detachment and expectation at each point in time.** (Drake, et. al. 1993; 2001 Minkoff, 1998) Progress is usually incremental, and no data supports a single brief intervention as providing definitive treatment for persistent comorbid conditions. The extent of case management support and structure required are proportional to the individual’s level of disability and impairment in functioning.
- 5. Integrated dual primary diagnosis-specific treatment interventions are recommended.** (Minkoff, 1998) The quality of any integrated intervention depends on the accuracy of diagnosis and quality of intervention for each

disorder being treated. In this context, integrated treatment interventions should apply evidence-based best practices (for psychopharmacology as well as for other interventions) for each separate primary disorder being addressed. In addition, a growing data set supports the high prevalence of trauma histories and trauma-related disorders in these individuals, women (85%) (Alexander, 1996; Harris, 1998) more so than men (50%) (Pepper, 1999), and there is increasing evidence of the value of trauma-specific interventions being combined with interventions for other psychiatric disorders as well as for substance disorders. (Harris, 1998; Evans and Sullivan, 1995, Najavits et. al., 1998)

- 6. Interventions need to be matched not only to diagnosis, but also to phase of recovery, stage of treatment, and stage of change.** The value of stagewise (engagement, persuasion, active treatment, relapse prevention) treatment (Mueser et. al., 1996; Drake et. al., 1993, 2001) has been well-documented, as well as stage specific treatment within the context of the transtheoretical model of change (Prochaska & DiClemente, 1992). Minkoff (1989, 1998) has articulated parallel phases of recovery (acute stabilization, motivational enhancement, prolonged stabilization, rehabilitation and recovery) that have been incorporated into national consensus guidelines.
- 7. Interventions need to be matched according to level of care and/or service intensity requirements, utilizing well-established level of care assessment methodologies.** Both ASAM PPC2 (ASAM, 1995) and LOCUS (AACP, 1998) have been demonstrated in preliminary studies to be valid tools for assessment of level of care requirements for individuals with addictive disorders and psychiatric disorders, respectively. Both instruments use a multidimensional assessment format to determine multiple dimensions of service intensity that comprise appropriate placement. ASAM PPC2R (2001) incorporates additional capacity for level of care assessment and placement for individuals with co-occurring disorders, though it has not yet been field tested.
- 8. Based upon all of the above together, there is no single correct dual diagnosis intervention, nor single correct program. For each individual, at any point in time, the correct intervention must be individualized, according to subgroup, diagnosis, stage of treatment or stage of change, phase of recovery, need for continuity, extent of disability, availability of external contingencies (e.g., legal), and level of care assessment.** This paradigm for treatment matching forms the basis for the design of the practice guidelines.
- 9. Outcomes of treatment interventions are similarly individualized, based upon the above variables and the nature and purpose of the intervention. Outcome variables include not only abstinence, but also amount and frequency of use, reduction in psychiatric symptoms, stage of change, level of functioning, utilization of acute care services, and reduction of harm.** (Drake et. al., 2001; Minkoff, 1998)

I. Target Group: Any psychiatric disorder (including both Axis I and Axis II disorders, as well as substance-induced psychiatric disorders), combined with substance dependence and/or abuse.
N.B. For individuals with SMI associated with persistent disability, any persistent pattern of substance use may be defined as abuse.

II. Recommended Practice Standards (derived from the above principles.)

A. Practice Standards

1. Welcoming expectation: Individuals with comorbidity are an expectation in every treatment setting, and should be engaged in an empathic, hopeful, welcoming manner in any treatment contact.
2. Access to assessment: Access to assessment or to any service should not require consumers to self-define as mental health OR substance disordered before arrival. Assessment should routinely expect that all consumers may have comorbid disorders, and that the assessment process may need to be ongoing in order to accurately determine what disorders are present, and what interventions are required. Arbitrary barriers to mental health assessment based on alcohol level or length of sobriety should be eliminated. Similarly, no one should be denied access to substance disorder assessment or treatment due to the presence of a comorbid psychiatric disorder and/or the presence of a regime of non-addictive psychotropic medication.
3. Access to continuing relationships: For individuals with more severe comorbid conditions, empathic, hopeful, continuous treatment relationships must be initiated and maintained even when the individual does not follow treatment recommendations.
4. Balance case management and care with expectation, empowerment, and empathic confrontation: Within a continuing relationship or an episode of care, consumers are provided assistance with those things that they cannot do for themselves by virtue of acute impairment or persistent disability, while being empowered to take responsibility for decisions and choices they need to make for themselves, and allowed to be empathically confronted with the negative consequences of poor decisions. Learning is supported by a positive reward for small steps forward, as well as by consequences.
5. Integrated dual primary treatment: Each disorder receives appropriate diagnosis-specific and stage-specific treatment, regardless of the status of the comorbid condition. Each disorder must not be undertreated because the other disorder is present; in fact, individuals often require enhanced treatment for either disorder because of the presence of comorbidity. For individuals with serious mental illness, for example, active substance use disorder may be an indication for using more effective psychotropic medication for the primary mental illness. Similarly, individuals with serious mental illness may require more

addiction treatment than individuals with addiction only, in the sense that they need more practice, rehearsal, and repetition, in smaller increments, with more structure and support, to learn recovery skills.

6. Stage-wise treatment: Interventions –and expected outcomes- need to be matched to stage of change.
 - i. Acute stabilization: Detoxification or safe sobering up; initial stabilization of acute psychiatric symptoms.
 - ii. Motivational Enhancement: Individual motivational strategies (Miller & Rollnick, 1991; Carey, 1996; Ziedonis & Trudeau, 1997) and pre-motivational or persuasion groups (Sciaccia 1991, Mueser & Noordsy, 1996). In the latter, group process facilitates discussion of substance use decisions for group members who are likely to be actively using and have made no commitment to change.
 - iii. Active Treatment: Individual and group treatment interventions for substance use disorders in individuals with psychiatric disorders and disabilities often require focus on specific substance reduction or elimination skills, including participation in self-help recovery programs (particularly for those with addiction), but with modification of skills training to accommodate disability-impaired learning capacities. These interventions may require smaller groups, with more specific role-playing and behavioral rehearsal of more basic skills. (Mueser & Noordsy, 1996,; Bellack & DiClemente, 1999; Roberts et. al., 1999.)
 - iv. Relapse Prevention: May require specific skills training on participation in self-help recovery programs, as well as access to specialized self-help programs like Dual Recovery Anonymous (Hamilton & Samples, 1995) and Double Trouble in Recovery (Vogel, 1999)
 - v. Rehabilitation and Recovery: Focus on developing new skills and capacities, based on strengths, and on developing improved self-esteem, pride, dignity, and sense of purpose in the context of the continued presence of both disorders.
7. Early access to rehabilitation: Disabled individuals who request assistance with housing, jobs, socialization, and meaningful activity are provided access to that assistance even if they are not initially adherent to mental health or substance disorder treatment recommendations.
8. Coordination and collaboration: Both ongoing and episodic interventions require consistent collaboration and coordination between all treaters, family caregivers, and external systems. Collaboration with families should be considered an expectation for all individuals at all stages of change, as families may provide significant assistance in developing strategies for motivational enhancement and contingent learning, in identifying specific skills or techniques

required for modification of substance using behavior, and in actively supporting participation in recovery-based programming to promote relapse prevention. With regard to external systems, significant new research has identified valuable models for integrated treatment of individuals involved in the correctional system (Peters & Hills, 1997; Godley et. al., 2000), the child protective service system, and the primary health care system.

III. Assessment, Differential Diagnoses, and Comorbid Conditions

A. Principles of Diagnostic Assessment: Screening, Detection, and Diagnosis

1. Welcoming expectation: Because of the high prevalence of comorbidity, routine assessment in all settings should be based on the assumption that any client is likely to have a comorbid condition. Direct communication to the client that such a presentation is both welcome and expectable will facilitate honest disclosure.
2. Structured Assessment Process: Accurate diagnostic assessment for individuals with co-occurring disorders is complicated by the difficulty of distinguishing symptom patterns that result from primary psychiatric illness from symptom patterns that are caused or exacerbated by primary substance use disorders. In many individuals with co-morbidity, both psychiatric and substance disorders are simultaneously and interactively contributing to symptoms at the point of assessment, particularly if assessment occurs when the patient is acutely decompensated. Consequently, differential diagnostic assessment requires a careful, structured approach to assessment, often over a period of time, in order to best elucidate diagnosis accurately.
3. Accessibility and Flexibility: Assessment begins at the point of clinical contact, regardless of the client's clinical presentation. Initiation of assessment should not be made conditional on arbitrary criteria such as length of abstinence, non-intoxicated alcohol level, negative drug screen, absence of psychiatric medication, and so on. Although in some individuals with co-occurring disorder, establishing an accurate diagnosis of one disorder requires the other disorder to be at baseline, in most cases diagnosis can be reasonably established by history (see below). Moreover, treatment must usually be initiated when neither disorder is at baseline; consequently, initial diagnoses are often presumptive, and the initial goal of assessment is to engage the individual in an ongoing process of continual reassessment as treatment progresses, during which diagnoses may be continually revised as new data emerge.
4. Screening and Detection:
 - a. Screening tools in the mental health setting for substance disorders may include the following:
Checklists of substances, including amounts and

patterns of use for each (include inquiry regarding over the counter preparations, caffeine, nicotine, and gambling); screening tools validated for use in people with mental illness (e.g., CAGE, ASII, SSI, MAST/DAST, MIDAS, DALI, RAFFT for adolescents – see Appendix A.); and selective use of urine screens, particularly for adolescents and for unreliable historians with puzzling presentations.

- b. For mental health screening in substance treatment settings, the use of symptom checklists (e.g., BPRS-C, MINI, Project Return Mental Health Screening Form III, – See Appendix A.) can be helpful to facilitate referral for a more comprehensive mental health diagnostic evaluation.
5. Collateral Contact: screening AND assessment should routinely incorporate obtaining permission to contact – and contacting- all available collaterals, including family, friends, case manager, probation officer, protective service worker, and other treaters, as well as obtaining records of previous treatment episodes.
 6. Diagnostic Determination:
 - a. Diagnosis of either mental illness or substance use disorder can rarely be established only by assessment of current substance use, mental health symptoms, or mental status exam. In most cases, diagnosis is more reliably established by obtaining a good history that is integrated, longitudinal, and strength-based.
 - b. Diagnosis of substance use disorders involves review of past and current patterns of substance use, and observing whether those patterns meet criteria for substance dependence or substance abuse.
 - c. Diagnosis of substance dependence is frequently based on evidence of lack of control of substance use in the face of clear harmful consequences, whether or not tolerance and withdrawal symptoms are present. Once substance dependence has been identified in the past, the diagnosis persists, even if the person currently exhibits reduced use or abstinence.
 - d. Diagnosis of substance abuse requires exclusion of substance dependence, and identifying a pattern of harmful use in relation to the individual's own context. For a person with a mental illness, any controlled use of substances that interferes with treatment or outcome can be defined as abuse, and the extent of use that would be considered problematic is inversely related to the severity of the psychiatric disorder or disability. For individuals with severe mental illness who are

disabled at baseline, any persistent use of substances is likely to be considered abuse, even though harmful effects may not be apparent on each occasion.

- e. Diagnosis of non- substance related psychiatric disorders similarly requires careful review of past and current patterns of mental health symptoms, in relation to presence or absence of appropriate medication and periods of substance abstinence or reduced use. Presence of symptoms meeting criteria for DSM IV psychiatric disorder during periods of abstinence or reduced use that exceed the resolution period for those symptoms based on the type and extent of substance use (see SUPS Table in Appendix B) meet presumptive criteria for mental illness.
 - f. All diagnoses should be initially considered to be presumptive, and subject to continual reevaluation and revision during the course of continuing treatment.
 - g. Whenever a psychiatric disorder and a substance disorder co-exist, even if the psychiatric disorder is substance-induced, both disorders should be considered primary, in the sense that each disorder requires appropriately intensive primary diagnosis-specific treatment simultaneously.
7. SMI/SED Determination: SMI/SED determination requires establishing (using the assessment methodology in the previous paragraph) a presumptive (NOT necessarily definitive) diagnosis of an SMI eligible psychiatric disorder, persistence of that disorder, and functional incapacity in accordance with county guidelines for SMI determination. If necessary, the SUPS Table (Appendix B) may be utilized to assess the resolution period after which substance-related contribution to symptomatology and functional incapacity are likely to be significantly reduced or eliminated.

B. Differential Diagnoses

1. Substance Disorder: Distinguish substance use, substance abuse, and substance dependence. Distinguish types and categories of substances.
2. Psychiatric Disorder: Distinguish substance induced psychiatric disorder, non-SMI psychiatric disorder, SMI psychiatric disorder.
3. Co-occurring Disorder Subtype: SMI + substance dependence (high-high); SMI + substance abuse (high-low); non-SMI/ substance-induced disorder + substance dependence/severe abuse (low-high); non-SMI/psychiatric symptoms + substance abuse (low-low).

C. Assessment of Common Comorbid Conditions

1. Trauma related disorders: Individuals with co-occurring psychiatric disorders (SMI) and substance disorders have a high prevalence of trauma histories and trauma related symptoms, women (85%) more so than men (50%). **Use of a trauma screening tool for both men and women, and ensuring that the engagement and assessment procedures are trauma-informed and trauma-sensitive are highly recommended.**
2. Cognitive disorders: Individuals with co-occurring disorders have a high risk of comorbid cognitive impairment, with causes ranging from congenital conditions (ADD, learning disabilities) to sequela of substance use, medical conditions, and/or head injuries. **Assessment of cognitive impairment (e.g., with the Mini Mental Status Exam and with specific assessment of reading skills and auditory/ visual learning capacity) is important in modifying treatment in accordance with the individual's ability to learn most effectively.**
3. Personality traits and disorders: Individuals with co-occurring axis I disorders will frequently exhibit symptoms and behavior characteristic of axis II disorders. At times, these dysfunctional personality traits will resolve as recovery progresses; at times they represent enduring personality disorders. **Diagnosis of personality disorder is based on patterns of dysfunctional behavior that are present either prior to onset of substance disorder, or during periods of abstinence, and are not simply the result of the axis I mental illness or substance disorder.**
4. Medical conditions: Individuals with co-occurring disorders are a high risk population for multiple medical conditions, most notably sexually transmitted diseases and various types of hepatitis. **Obtaining medical history and medical records is an important component of diagnostic assessment.**

D. Additional Assessment to Determine Treatment Needs

1. Phase of Recovery/Stage of Change/Stage of Treatment: The literature on co-occurring disorders has identified four **phases of recovery** (Minkoff, 1989): acute stabilization; motivational enhancement/engagement; prolonged stabilization (active treatment/relapse prevention); rehabilitation and recovery; five **stages of change** (Prochaska & DiClemente, 1992): pre-contemplation, contemplation, preparation, action, maintenance; four **stages of treatment** for seriously mentally ill individuals with substance disorders (Osher & Kofoed, 1989): engagement, persuasion, active treatment, and relapse prevention. Research of the latter two groups

clearly states that effective interventions must be stage specific. Consequently, stage specific assessment is required. The Substance Abuse Treatment Scale (McHugo, et. al., 1995) is validated for SMI populations; the URICA (DiClemente) and Readiness to Change Scale (Rollnick et. al.) with less seriously mentally ill populations. (Appendix A.)

2. **Multidimensional Assessment:** Significant research (McLellan et. al.) has identified the value of problem-service matching for individuals with substance disorders, including co-occurring psychiatric disorders. Use of multidimensional assessment tools like the Addiction Severity Index or the GAIN offer the opportunity to assess problems in multiple dimensions for the purpose of service matching. The ASI is not as well-validated in dual diagnosis populations, however, and does not permit integration of dimensions, or connection of dimensional problems to a particular disorder.
3. **Continuous Integrated Treatment Relationship:** One of the priorities of treatment is to establish a primary treatment relationship. Assessment for the presence and quality of such a relationship is a necessary prerequisite for treatment planning.
4. **Family or Caregiver Support:** Available supports supply both assistance and contingencies for mobilizing treatment progress.
5. **Extent of Impairment:** Assess strengths and disabilities to determine extent to which individuals require care and support unconditionally, and in what areas (housing, money management, ADLs). Also, assess capacity to learn recovery skills and to participate in substance disorder treatment, with regard to need for DDC or DDE addiction programming. (See below)
6. **External Contingencies:** Evaluate for presence of legal involvement, child protective service involvement, or other external contingency. Also evaluate for possible contingencies within existing mental health or substance program settings, including payeeships. (Ries & Comtois, 1997).
7. **Level of Care:** Assessment of level of care requires use of multidimensional assessment instruments, such as the ASAM PPC 2R (2001) for addiction related presentations, and LOCUS (2.001) for mental health related presentations. Both instruments have capacity to address comorbidity in level of care assessment.

IV. Treatment Interventions

There is no one single correct intervention for individuals with co-occurring disorders. Intervention strategies must be appropriately matched to individualized clinical assessment based on the parameters listed below. Diagnosis specific interventions for psychiatric and substance disorder are addressed in the practice guidelines for each separate disorder; this section will cover only those issues that relate

to individuals with co-occurring disorders specifically. **One of the most important overarching principles is the value of continuous, integrated, unconditional treatment relationships that provide ongoing dual recovery management and support over time, regardless of treatment adherence or level of substance use. Within the context of these ongoing relationships, individuals can receive a variety of episodic clinical interventions matched to particular needs and stages of change.** The nature of these interventions is described below. See Appendix C for a template for matching interventions according to subtype of dual disorder and stage of change/phase of recovery.

- A. Continuity of Dual Recovery Management and Care: Research-based principles (Drake et. al., 1993, 2001; Minkoff et. al., 1998) emphasize the importance of empathic, hopeful, continuing treatment relationships, provided by an individual clinician, team of clinicians (Continuous Treatment Team – CTT; Integrated ACT), or community of recovering peers and clinicians (Modified Therapeutic Community [Sacks et. al., 1999]; Dual Recovery Clubhouse), in which integrated treatment and coordination of care take place across multiple treatment episodes. Integrated treatment implies that the primary treatment relationship integrates mental health and substance interventions at any point in time and over time into a person-centered whole. **For individuals with complex problems and/or severe impairment, establishment of a relationship to provide continuous integrated dual recovery management is the first priority of treatment planning.**
- B. Episodic Interventions: Both psychiatric and substance disorders are chronic relapsing conditions, and individuals may be appropriately served by a variety of episodic interventions at different points in time. Within the context of a continuous dual recovery disease management approach, episodic interventions may occur in acute, subacute, or long-term settings, in either mental health or substance treatment settings. (See Programs in Section V (C).) Ideally, there is a continuous interaction between “continuity interventions”, which are unconditional and flexible, with various treatment interventions which have time-limits and expectations which affect entry and discharge.
- C. Subtype of Co-occurring Disorder: Subtype of co-occurring disorder affects locus of responsibility for client. Individuals who are seriously mentally ill (SMI) are commonly eligible for types of services provided in the mental health system (including continuing case management) that individuals with non-SMI symptoms or disorders may not be able to get. Non-SMI individuals require specific mechanisms for providing such continuity of care or case management through other means. Similarly, individuals with substance dependence are more likely to be appropriate for involvement in addiction episodes of care in the addiction system than are individuals with only substance abuse.
- D. Diagnosis-Specific Treatment:
 - 1. Integrated Dual Primary Treatment: When mental illness and substance disorder co-exist, both disorders are considered primary, and

appropriately intensive simultaneous diagnosis- specific treatment for each disorder is required. Integrated dual primary treatment is NOT a new intervention. Rather, it involves a variety of methods by which diagnosis-specific, evidence-based strategies for each type of disorder are appropriately combined and coordinated in a single setting and in an integrated treatment relationship, and in which the interventions for each disorder are appropriately modified (if necessary) to address treatment impediments resulting from the other disorder.

2. Psychiatric Disorder: Treatment for known diagnosed mental illness must be initiated and maintained, including maintaining non-addictive medication, even for individuals who may be continuing to use substances. In addition, the best available psychiatric medication regime for each disorder may promote better outcomes for both disorders. Non-psychopharmacologic treatment regimes (e.g., dialectic behavioral therapy for borderline personality disorder) may be appropriately utilized to develop cognitive-behavioral skills to manage the mental illness, while applying similar skills to managing substance use, and integrating direct substance disorder treatment interventions as well. Diagnosis-specific integrated interventions have been developed and researched for trauma-related disorders (Najavits et. al., 1998; Harris, 1998, Evans and Sullivan, 1995), and bipolar disorder (Weiss et. al.).
3. Substance Disorder:
 - a. Substance abuse treatment: individual and group interventions to help individuals make, and implement, better choices regarding substance use in relation to their mental illnesses. Outcomes focus on limitation of use to achieve reduction in harmful outcome. For individuals with severe mental illness and baseline disability, abstinence outcomes are recommended, even though use can be controlled.
 - b. Substance dependence treatment (addiction treatment) for individuals with co-occurring disorders is fundamentally similar to addiction treatment for anyone, with abstinence as a goal, and with the need to develop specific skills for attaining and maintaining abstinence, including use of generic recovery meetings (AA) and dual recovery programs (DRA, DTR). Individuals with serious psychiatric impairment often require more addiction treatment in smaller increments with more support over a longer period to attain recovery skills. Treatment interventions must be simpler, more concrete, with more role rehearsal, to meet the needs of seriously psychiatrically

impaired individuals, and require maintaining continuing mental health supports and integrated treatment relationships while the learning process takes place.

- E. Phase of Recovery/Stage of Change/Stage of Treatment: As noted above, interventions need to be phase or stage-specific. This implies that the strategy for individuals who are pre-contemplative is to apply motivational enhancement interventions (individual and/or group) to help those individuals to be contemplators, and so on. Existing motivational enhancement strategies (cf. Miller and Rollnick, 1991; CSAT TIP #35, 1999) have been successfully adapted to individuals with serious mental illness (Carey, 1996; Ziedonis and Trudeau, 1997). Stage-specific group interventions have demonstrated effectiveness with dually diagnosed populations. (Mueser & Noordsy, 1996).
- F. Extent of Impairment:
1. Case management support needs to be provided, usually unconditionally, to assist individuals in basic needs that they cannot provide for themselves.
 2. At each point in time during the course of treatment, however, whether in the context of a continuing treatment relationship, or during an episode of care, case management and care must be balanced with empathic detachment, empowerment, expectation, and empathic confrontation for each individual, in order to promote learning and growth.
 3. More seriously impaired individuals at baseline (e.g., individuals with serious mental illnesses) are likely to require more extensive case management, support, and structure (unconditionally) to accommodate their psychiatric disabilities.
 4. Methods for providing contingent learning opportunities within such structure include tightly managed payeeships, residential and day programs with a variety of contingent learning opportunities, etc. Contingencies and expectations must be matched to the individual's stage of change and capacity for learning, and are ideally developed maximizing consumer choice and participation.
 5. For individuals requiring episodes of addiction treatment, requirement for psychiatric enhancement or modification of addiction treatment settings is proportional to the extent of psychiatric symptomatology or disability. Thus, different categories of addiction program (Dual Diagnosis Enhanced – DDE; Dual Diagnosis Capable – DDC) are required for different populations. (See Section V(B) for more description of program categories.)
- G. External Contingencies:
1. Involvement of the criminal justice system or the protective service system may create treatment leverage that enhances motivation and treatment participation. Such interventions often require close collaboration between primary mental health and addiction clinicians with protective service workers and probation officers.

2. External contingencies may also be present through the involvement of natural caregivers (e.g., families) to develop collaborative strategies of contingency management and intervention.
3. Contingencies may emerge through participation in programmatic interventions within the treatment system: payeeships, abstinence-expected housing, etc. Careful integration of contingency management strategies into ongoing treatment planning can substantially enhance outcome, provided the contingencies are tightly managed, non-punitive, and organized to reward and promote continuous learning rather than treatment discontinuation.

H. Level of Care: Diagnosis specific and stage specific interventions can often occur at almost any level of care, depending on formal service intensity assessment as described above. Specific program examples at various levels of care are described below.

V. Program Types

A. Program Categories (ASAM 2001; Minkoff, 2000): Within any system of care, available programmatic interventions can be categorized according to dual diagnosis capability. The expectation is that all programs in either system evolve to become at least dual diagnosis capable (DDC-CD; DDC-MH), and a subgroup of services is designed to be dual diagnosis enhanced (DDE-CD; DDE-MH).

1. DDC-CD: Welcomes individuals with co-occurring disorders whose conditions are sufficiently stable so that neither symptoms nor disability significantly interfere with standard treatment. Makes provision for comorbidity in program mission, screening, assessment, treatment planning, psychopharmacology policies, program content, discharge planning, and staff competency and training.
2. DDC-MH: Welcomes individuals with active substance use disorders for MH treatment. Makes provisions for comorbidity as above. Incorporates integrated continuity of case management and/or stage-specific programming, depending on type of program.
3. DDE-CD: DDC program enhanced to accommodate individuals with subacute symptomatology or moderate disability. Enhanced mental health staffing and programming, increased levels of staffing, staff competency, and supervision. Increased coordination with continuing mental health or integrated treatment settings.
4. DDE-MH: MH program with increased substance related staffing skill or programmatic design: e.g., dual diagnosis inpatient unit, providing addiction programming in a psychiatrically managed setting; intensive dual diagnosis case management teams (CTT), providing pre-motivational engagement and stage-specific treatment for the most impaired and disengaged individuals with active substance disorders; comprehensive housing or day programs, providing multiple types of

stage-specific treatment interventions and substance-related expectations.

B. Program Models

1. Continuous Integrated Case Management: Range from high intensity to low intensity, and DDC or DDE. High intensity DDE programs include Continuous Treatment Teams (CTT) (Drake et. al., 2001), or integrated ACT teams. Moderate intensity programs include DDC or DDE case management teams (ICM, SCM). Low intensity interventions may be provided by individual outpatient clinicians (plus psychopharmacologists) in outpatient clinic settings.
2. Continuous Recovery Support: Dual Recovery Clubhouse programs (DDE) or Clubhouse programs with dual recovery supports or tracks (DDC); Dual Recovery self-help programs.
3. Emergency Triage/ Crisis Intervention (DDC): Welcomes any type of mental health and/or substance presentation, provides initial triage, level of care assessment, and crisis intervention and/or referral
4. Crisis Stabilization Beds (DDC): Hospital diversion in staffed setting for individuals with psychiatric presentations who may be actively using substances, but do not require medically monitored detoxification.
5. Psychiatric Inpatient Unit or Partial Hospital (DDC or DDE): The former does routine assessment, engagement, motivational enhancement, and stage-specific groups; the latter provides more sophisticated assessment plus addiction treatment in a psychiatrically managed setting. DDE programs have also been designed and implemented in county hospitals for individuals in long-term care.
6. Detoxification programs (DDC or DDE). Specialized psychiatrically enhanced detox (Wilens) can provide supervised detoxification for individuals who may have psychiatric exacerbations during episodes of acute substance intoxication (e.g., suicidality, aggressive impulsivity, psychosis) but who can be safe in an unlocked staffed setting.
7. Psychiatric Day Treatment (DDC or DDE): Intermediate to long-term programs for psychiatric support that provide varying degrees of stage-specific programming and integrated case management. DDE programs have more sophisticated staff, more linkages with substance programming, and a full range of stage-specific groups.
8. Addiction IOP, Partial, Residential (DDC or DDE): Episodes of abstinence-oriented active addiction treatment in settings with varying degrees of psychiatric capability. Programs can be very long term (years), such as Modified Therapeutic Community, or short term (one to two weeks, up to 90 days)
9. Psychiatric Housing Programs: Provide housing supports for individuals with psychiatric disabilities. Programs need to be matched according to stage of change;

- a. Abstinence-expected (“dry”) housing: This model is most appropriate for individuals with comorbid substance disorders who choose abstinence, and who want to live in a sober group setting to support their achievement of abstinence. Such models may range from typical staffed group homes to supported independent group sober living. In all these settings, any substance use is a program violation, but consequences are usually focused and temporary, rather than “one strike and you’re out”.
- b. Abstinence-encouraged (“damp”) housing. This model is most appropriate for individuals who recognize their need to limit use and are willing to live in supported setting where uncontrolled use by themselves and others is actively discouraged. However, they are not ready or willing to be abstinent. Interventions focus on dangerous behavior, rather than substance use per se. Motivational enhancement interventions are usually built in to program design.
- c. Consumer-choice (“wet”) housing. This model has had demonstrated effectiveness in preventing homelessness among individuals with persistent homeless status and serious psychiatric disability (Tsemberis & Eisenberg, 2000: “Pathways to Housing Program”). The usual approach is to provide independent supported housing with case management (or ACT) wrap-around, focused on housing retention. The consumer can use substances as he chooses (though recommended otherwise) except to the extent that use related behavior specifically interferes with housing retention. Pre-motivational and motivational interventions are incorporated into the overall treatment approach.

VI. Outcome Measures

A. Overview

Outcome for individuals with co-occurring disorders needs to be individualized, in accordance with a range of variables that specify treatment interventions and programs for particular subpopulations (see below). These variables include:

- i. Subtype (quadrant) of co-occurring disorder
 - 1. Serious mental illness (SMI) + substance dependence
 - 2. SMI + substance abuse
 - 3. Substance dependence + non-SMI psychiatric disorder
 - 4. Substance abuse + non-SMI psychiatric symptoms
- ii. Seriousness of baseline psychiatric disability
- iii. Extent of substance use, and associated problems
- iv. Specific psychiatric and substance diagnoses
- v. Behavioral or medical risk/ involvement in other systems

1. Homelessness
 2. Criminal behavior/violence
 3. Medical involvement (e.g., STD)
 4. Familial disruption/ child neglect or abuse
- vi. Stage of treatment/stage of change
 - vii. Intensity of service utilization

Outcome must also be categorized as **long term**, defining the ultimate outcome of a continuing course of treatment with multiple interventions, versus **short term**, defining the expected outcome of a particular program or episode of care.

Finally, there are multiple dimensions of outcome, and the selection of which dimensions to measure depends on the variables listed above. These dimensions are enumerated in the following sections.

B. Improved Outcome of Psychiatric Illness

Improved psychiatric outcome is measured by reduction in symptomatology, increased functionality and stability, identification and attainment of recovery goals, reduction in high end service utilization, and improved quality of life.

For individuals with co-occurring psychiatric and substance disorders (ICOPSD), psychiatric outcomes are defined by the desired outcomes specified in the service planning guidelines for each psychiatric diagnosis.

C. Improved Outcome of Substance Disorder

1. Long-term outcome:
 - a. For individuals with substance dependence: sustained abstinence, increased functional capacity, and increased subjective experience of recovery and serenity. (N.B. For ICOPSD in methadone maintenance treatment, desired outcomes regarding substance use, and continuation of methadone, are the same as for MMT in general.)
 - b. For individuals with serious mental illness and substance abuse: sustained non-harmful use (abstinence or occasional (less often than weekly) use of mild substances not to intoxication) and elimination of substance-related psychiatric symptom exacerbations.
 - c. For individuals with substance abuse and non-serious psychiatric symptoms: sustained non-harmful use defined by elimination of substance-related psychiatric symptoms or symptom exacerbations.

2. Short-term outcomes: dependent on specific program and stage of treatment.
 - a. Acute stabilization: safe detoxification or sobering up, plus safe stabilization of substance-induced or substance-exacerbated psychiatric symptoms or disorders, plus referral to continuing interventions for motivational enhancement and/or prolonged stabilization of each disorder.
 - b. Motivational enhancement: treatment engagement and progress through stages of change.
 - c. Active treatment for substance abuse: incremental small step changes in substance use patterns in order to achieve reduction in harm with minimum change. The pattern of use that is non-harmful is defined by successive trials in relation to the severity of psychiatric disability and symptoms.
 - d. Active treatment for substance dependence: commitment to abstinence and acquisition of skills and supports to maintain abstinence at the next level of care.
 - e. Relapse prevention: maintenance of abstinence or non-harmful use patterns through appropriate use of recovery supports and specific relapse prevention skills.
 - f. Rehabilitation and recovery: development of new skills and functional abilities to manage feelings and situations, to improve self-concept, serenity, and self-esteem, as stability continues.

C. Stage of Change

1. For individuals who are engaged in treatment for psychiatric disorders, but are pre-motivational regarding substance use: initial treatment outcome is defined by progress through stages of change or stages of treatment, as measured by Stages of Treatment Scale (McHugo et. al., 1995) for SMI, Readiness to Change Scale, etc. Expected outcomes for individuals with SMI who are pre-motivational (in the “engagement” phase), based on the work of Drake et. al., are that approximately 80% will move through one stage of treatment in six months.
2. For individuals who are not engaged in treatment for psychiatric disorders, and have co-occurring substance disorder: outcome can be

defined by progress through stages of change regarding psychiatric treatment.

D. Reduction in Service Utilization

Interventions targeted to high service utilizers (e.g. intensive case management), often in managed care systems, will have the expected short-term outcome of reducing more intensive service utilization (e.g., hospitalization, detoxification) and increasing ambulatory contact. Evidence-based best practices targeting very high utilizers have achieved dramatic reductions within one year.

E. Harm Reduction and/or Improved Functioning and Stability

1. In the context of motivational enhancement interventions: individualized harm reduction goals can be identified as short-term outcome targets.
2. In the context of general functioning and involvement in other systems, harm reduction outcomes can include increased housing stability and reduced homelessness; reduction in arrest, incarceration, and/or criminal activity; reduction in abuse, neglect, and family disruption; increased medical stability and treatment adherence (e.g. for HIV regime); reduction in sexual risk behaviors; increased job stability and/or financial stability (e.g., reduction in level of payeeship supervision); increased socialization with healthy peers; and increased mental health treatment adherence and reduction of prescription drug misuse.
3. Achievement of harm reduction outcomes may often occur long before abstinence (or even full non-harmful use) is achieved.

