

EVIDENCE-BASED  
PRACTICES

**KIT**

Knowledge Informing Transformation

# The Evidence

## Integrated Treatment for Co-Occurring Disorders



U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES  
Substance Abuse and Mental Health Services Administration  
Center for Mental Health Services  
[www.samhsa.gov](http://www.samhsa.gov)



# The Evidence



## Integrated Treatment for Co-Occurring Disorders

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## The Evidence

*The Evidence* introduces all stakeholders to the research literature and other resources on Integrated Treatment for Co-Occurring Disorders. This booklet includes the following:

- Two key resources included in the KIT;
- Additional resources for further reading; and
- References for the citations presented throughout the KIT.

# Integrated Treatment for Co-Occurring Disorders

This KIT is part of a series of Evidence-Based Practices KITs created by the Center for Mental Health Services, Substance Abuse and Mental Health Services Administration, U.S. Department of Health and Human Services.

This booklet is part of the Integrated Treatment for Co-Occurring Disorders KIT that includes a DVD, CD-ROM, and seven booklets:

**How to Use the Evidence-Based Practices KITs**

**Getting Started with Evidence-Based Practices**

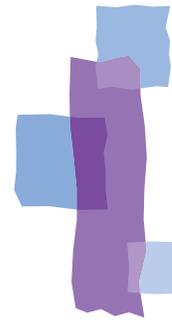
**Building Your Program**

**Training Frontline Staff**

**Evaluating Your Program**

**The Evidence**

**Using Multimedia to Introduce Your EBP**



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## **What's in *The Evidence***

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# **Integrated Treatment for Co-Occurring Disorders**



## The Evidence

### Review of Research Literature

A number of research articles summarize the effectiveness of Integrated Treatment for Co-Occurring Disorders. This KIT includes a full text copy of one of them:

Drake, R. E., Essock, S. M., Shaner, A., Carey, K. B., Minkoff, K., Kola, L., et al. (2001). Implementing dual diagnosis services for clients with severe mental illness. *Psychiatric Services*, 52(4), 469-476.

This article describes the critical components of the evidence-based model and its effectiveness. Barriers to implementation and strategies for overcoming them are also discussed, based on experiences in several states.

This article may be viewed or printed from the CD-ROM in your KIT. For a printed copy, see page 3.



Center for Substance Abuse Treatment, Substance Abuse Treatment for Persons with Co-Occurring Disorders, Treatment Improvement Protocol (TIP) Series 42, DHHS Publication No. (SMA) 05-3992, Rockville, MD: Substance Abuse and Mental Health Services Administration, 2005.

Similar to this KIT, TIP 42 is a guide that provides resources for treating co-occurring mental illnesses and substance use disorders. It is an excellent complement to the Integrated Treatment KIT.

The primary audiences for TIP 42 are substance abuse treatment practitioners with varying degrees of education and experience. Secondary audiences are policymakers and other professionals who work with consumers who have co-occurring disorders.

TIP 42 summarizes state-of-the-art treatment of co-occurring disorders. It has chapters on terminology, assessment, and treatment strategies and gives suggestions for policy planning.

Concepts, models, and strategies outlined in TIP 42 are based on definitive research, empirical support, and agreements of a consensus panel. Successful models of treatment are portrayed and specific consensus panel recommendations are cited throughout the TIP.

TIP 42 is accompanied by four supplements:

- *Quick Guide for Administrators Based on TIP 42: Substance Abuse Treatment for Persons with Co-Occurring Disorders;*
- *Quick Guide for Clinicians Based on TIP 42: Substance Abuse Treatment for Persons with Co-Occurring Disorders;*
- *Substance Abuse Treatment for Persons with Co-Occurring Disorders: In-Service Training Based on a Treatment Improvement Protocol Tip 42; and*
- *Knowledge Application Program (KAP) Keys for Clinicians Based on TIP 42: Substance Abuse Treatment for Persons with Co-Occurring Disorders.*

For a copy of TIP 42 and the supplemental guides for the TIP, see the CD-ROM in this KIT or go to [www.ncadi.samhsa.gov](http://www.ncadi.samhsa.gov).

# Implementing Dual Diagnosis Services for Clients With Severe Mental Illness

2001  
Dedicated to  
Evidence-  
Based  
Psychiatry

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After 20 years of development and research, dual diagnosis services for clients with severe mental illness are emerging as an evidence-based practice. Effective dual diagnosis programs combine mental health and substance abuse interventions that are tailored for the complex needs of clients with comorbid disorders. The authors describe the critical components of effective programs, which include a comprehensive, long-term, staged approach to recovery; assertive outreach; motivational interventions; provision of help to clients in acquiring skills and supports to manage both illnesses and to pursue functional goals; and cultural sensitivity and competence. Many state mental health systems are implementing dual diagnosis services, but high-quality services are rare. The authors provide an overview of the numerous barriers to implementation and describe implementation strategies to overcome the barriers. Current approaches to implementing dual diagnosis programs involve organizational and financing changes at the policy level, clarity of program mission with structural changes to support dual diagnosis services, training and supervision for clinicians, and dissemination of accurate information to consumers and families to support understanding, demand, and advocacy. (*Psychiatric Services* 52:469–476, 2001)

Substance abuse is the most common and clinically significant comorbid disorder among adults with severe mental illness. In this paper the term “substance abuse” refers to substance use disorders, which include abuse and dependence. “Severe mental illness” refers to long-term psychiatric disorders, such as schizophrenia, that are associated with disability and that fall within the traditional purview of public mental health systems. Finally, the term “dual diagnosis” denotes the co-occurrence of substance abuse and severe mental illness.

There are many populations with dual diagnoses, and there are other common terms for this particular group. Furthermore, dual diagnosis is a misleading term because the individuals in this group are heterogeneous and tend to have multiple impairments rather than just two illnesses. Nevertheless, the term appears consistently in the literature and has acquired some coherence as a referent to particular clients, treatments, programs, and service system issues.

Since the problem of dual diagnosis became clinically apparent in the early 1980s (1,2), researchers have established three basic and consistent findings. First, co-occurrence is common;

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about 50 percent of individuals with severe mental disorders are affected by substance abuse (3). Second, dual diagnosis is associated with a variety of negative outcomes, including higher rates of relapse (4), hospitalization (5), violence (6), incarceration (7), homelessness (8), and serious infections such as HIV and hepatitis (9). Third, the parallel but separate mental health and substance abuse treatment systems so common in the United States deliver fragmented and ineffective care (10). Most clients are unable to navigate the separate systems or make sense of disparate messages about treatment and recovery. Often they are excluded or extruded from services in one system because of the comorbid disorder and told to return when the other problem is under control. For those reasons, clinicians, administrators, researchers, family organizations, and clients themselves have been calling for the integration of mental health and substance abuse services for at least 15 years (10,11).

Over that time, integrated dual diagnosis services—that is, treatments and programs—have been steadily developed, refined, and evaluated (11). This paper, part of a series on specific evidence-based practices for persons with severe mental illness, provides an overview of the evolution of dual diagnosis services, the evidence on outcomes and critical components, and the limitations of current research. We also address barriers to the implementation of dual diagnosis services and current strategies for implementation in routine mental health settings.

### Dual diagnosis services

Treatments, or interventions, are offered within programs that are part of service systems. Dual diagnosis treatments combine or integrate mental health and substance abuse interventions at the level of the clinical interaction. Hence integrated treatment means that the same clinicians or teams of clinicians, working in one setting, provide appropriate mental health and substance abuse interventions in a coordinated fashion. In other words, the caregivers take responsibility for combining the interventions

**Editor's note:** This article is part of a series of papers on evidence-based practices being published in *Psychiatric Services* this year. The papers focus on mental health practices for which there is substantial evidence of effectiveness and that should therefore be routinely offered in clinical settings. Articles in previous issues have addressed implementing evidence-based practices for persons with severe mental illness and in routine mental health settings and implementing supported employment as an evidence-based practice. Among other topics, future articles will examine evidence-based practices for case management and assertive community treatment, illness self-management, children's services, and services for the elderly population. Robert E. Drake, M.D., Ph.D., and Howard H. Goldman, M.D., Ph.D., are the series editors.

into one coherent package. For the individual with a dual diagnosis, the services appear seamless, with a consistent approach, philosophy, and set of recommendations. The need to negotiate with separate clinical teams, programs, or systems disappears.

Integration involves not only combining appropriate treatments for both disorders but also modifying traditional interventions (12–15). For example, social skills training emphasizes the importance of developing relationships but also the need to avoid social situations that could lead to substance use. Substance abuse counseling goes slowly, in accordance with the cognitive deficits, negative symptoms, vulnerability to confrontation, and greater need for support that are characteristic of many individuals with severe mental illness. Family interventions address understanding and learning to cope with two interacting illnesses.

The goal of dual diagnosis interventions is recovery from two serious ill-

nesses (16). In this context, “recovery” means that the individual with a dual diagnosis learns to manage both illnesses so that he or she can pursue meaningful life goals (17,18).

### Research on dual diagnosis practices

In most states, the publicly financed mental health system bears responsibility for providing treatments and support services for clients with severe mental illness. Dual diagnosis treatments for these clients have therefore generally been added to community support programs within the mental health system.

Early studies of dual diagnosis interventions during the 1980s examined the application of traditional substance abuse treatments, such as 12-step groups, to clients with mental disorders within mental health programs. These studies had disappointing results for at least two reasons (19). The clinical programs did not take into account the complex needs of the population, and researchers had not yet solved basic methodologic problems. For example, early programs often failed to incorporate outreach and motivational interventions, and evaluations were limited by lack of reliable and valid assessment of substance abuse. Reviews based on these early studies were understandably pessimistic (20).

At the same time, however, a series of demonstration projects using more comprehensive programs that incorporated assertive outreach and long-term rehabilitation began to show better outcomes. Moreover, the projects developed motivational interventions to help clients who did not perceive or acknowledge their substance abuse or mental illness problems (21).

Building on these insights, projects in the early 1990s incorporated motivational approaches as well as outreach, comprehensiveness, and a long-term perspective, often within the structure of multidisciplinary treatment teams. These later studies, which were uncontrolled but incorporated more valid measures of substance abuse, generally showed positive outcomes, including substantial rates of stable remission of substance abuse (22–25). Of course, uncon-

trolled studies of this type often produce findings that are not replicated in controlled studies; they should be considered pilot studies, which are often needed to refine the intervention and the methodologies of evaluation and which should be followed by controlled investigation to determine evidence-based practice (26).

Controlled research studies of comprehensive dual diagnosis programs began to appear in the mid-1990s. Eight recent studies with experimental or quasi-experimental designs support the effectiveness of integrated dual diagnosis treatments for clients with severe mental illness and substance use disorders (27–34). The type and array of dual diagnosis interventions in these programs vary, but they include several common components, which are reviewed below. The eight studies demonstrated a variety of positive outcomes in domains such as substance abuse, psychiatric symptoms, housing, hospitalization, arrests, functional status, and quality of life (19). Although each had methodological limitations, together they indicate that current integrated treatment programs are more effective than nonintegrated programs. By contrast, the evidence continues to show that dual diagnosis clients in mental health programs that fail to integrate substance abuse interventions have poor outcomes (35).

### **Critical components**

Several components of integrated programs can be considered evidence-based practices because they are almost always present in programs that have demonstrated good outcomes in controlled studies and because their absence is associated with predictable failures (21). For example, dual diagnosis programs that include assertive outreach are able to engage and retain clients at a high rate, while those that fail to include outreach lose many clients.

### *Staged interventions*

Effective programs incorporate, implicitly or explicitly, the concept of stages of treatment (14,36,37). In the simplest conceptualization, stages of treatment include forming a trusting

relationship (engagement), helping the engaged client develop the motivation to become involved in recovery-oriented interventions (persuasion), helping the motivated client acquire skills and supports for controlling illnesses and pursuing goals (active treatment), and helping the client in stable remission develop and use strategies for maintaining recovery (relapse prevention).

Clients do not move linearly through stages. They sometimes enter services at advanced levels, skip over or pass rapidly through stages, or relapse to earlier stages. They may be in different stages with respect to mental illness and substance abuse. Nevertheless, the concept of stages has proved useful to program planners and clinicians because clients at different stages respond to stage-specific interventions.

### *Assertive outreach*

Many clients with a dual diagnosis have difficulty linking with services and participating in treatment (38). Effective programs engage clients and members of their support systems by providing assertive outreach, usually through some combination of intensive case management and meetings in the client's residence (21,32). For example, homeless persons with dual diagnoses often benefit from outreach, help with housing, and time to develop a trusting relationship before participating in any formal treatment. These approaches enable clients to gain access to services and maintain needed relationships with a consistent program over months and years. Without such efforts, noncompliance and dropout rates are high (39).

### *Motivational interventions*

Most dual diagnosis clients have little readiness for abstinence-oriented treatment (40,41). Many also lack motivation to manage psychiatric illness and to pursue employment or other functional goals. Effective programs therefore incorporate motivational interventions that are designed to help clients become ready for more definitive interventions aimed at illness self-management (12,14,21). For example, clients who

are so demoralized, symptomatic, or confused that they mistakenly believe that alcohol and cocaine are helping them to cope better than medications require education, support, and counseling to develop hope and a realistic understanding of illnesses, drugs, treatments, and goals.

Motivational interventions involve helping the individual identify his or her own goals and to recognize, through a systematic examination of the individual's ambivalence, that not managing one's illnesses interferes with attaining those goals (42). Recent research has demonstrated that clients who are not motivated can be reliably identified (43) and effectively helped with motivational interventions (Carey KB, Carey MP, Maisto SA, et al, unpublished data, 2000).

### *Counseling*

Once clients are motivated to manage their own illnesses, they need to develop skills and supports to control symptoms and to pursue an abstinent lifestyle. Effective programs provide some form of counseling that promotes cognitive and behavioral skills at this stage. The counseling takes different forms and formats, such as group, individual, or family therapy or a combination (15). Few studies have compared specific approaches to counseling, although one study did find preliminary evidence that a cognitive-behavioral approach was superior to a 12-step approach (28). At least three research groups are actively working to refine cognitive-behavioral approaches to substance abuse counseling for dual diagnosis clients (12,13,44). These approaches often incorporate motivational sessions at the beginning of counseling and as needed in subsequent sessions rather than as separate interventions.

### *Social support interventions*

In addition to helping clients build skills for managing their illness and pursuing goals, effective programs focus on strengthening the immediate social environment to help them modify their behavior. These activities, which recognize the role of social networks in recovery from dual disorders (45), include social network or family interventions.

### *Long-term perspective*

Effective programs recognize that recovery tends to occur over months or years in the community. People with severe mental illness and substance abuse do not usually develop stability and functional improvements quickly, even in intensive treatment programs, unless they enter treatment at an advanced stage (19). Instead, they tend to improve over months and years in conjunction with a consistent dual diagnosis program. Effective programs therefore take a long-term, community-based perspective that includes rehabilitation activities to prevent relapses and to enhance gains.

### *Comprehensiveness*

Learning to lead a symptom-free, abstinent lifestyle that is satisfying and sustainable often requires transforming many aspects of one's life—for example, habits, stress management, friends, activities, and housing. Therefore, in effective programs attention to substance abuse as well as mental illness is integrated into all aspects of the existing mental health program and service system rather than isolated as a discrete substance abuse treatment intervention. Inpatient hospitalization, assessment, crisis intervention, medication management, money management, laboratory screening, housing, and vocational rehabilitation incorporate special features that are tailored specifically for dual diagnosis patients. For example, hospitalization is considered a component of the system that supports movement toward recovery by providing diagnosis, stabilization, and linkage with outpatient dual diagnosis interventions during acute episodes (46). Similarly, housing and vocational programs can be used to support the individual with a dual diagnosis in acquiring skills and supports needed for recovery (47).

### *Cultural sensitivity and competence*

A fundamental finding of the demonstration programs of the late 1980s was that cultural sensitivity and competence were critical to engaging clients in dual diagnosis services (21). These demonstrations showed that

African Americans, Hispanics, and other underserved groups, such as farm workers, homeless persons, women with children, inner-city residents, and persons in rural areas, could be engaged in dual diagnosis services if the services were tailored to their particular racial, cultural, and other group characteristics.

Many dual diagnosis programs omit some of these critical components as evidence-based practices. However, one consistent finding in the research is that programs that show high fidelity to the model described here—those that incorporate more of the core elements—produce better outcomes than low-fidelity programs (32,48,49). A common misconception about technology transfer is that model programs are not generalizable and that local solutions are superior. A more accurate reading of the research is that modifications for cultural and other local circumstances are important, but critical program components must be replicated to achieve good outcomes.

### **Limitations of the research**

The design and quality of research procedures and data across dual diagnosis studies are inconsistent. In addition, researchers have thus far failed to address a number of issues.

Dual diagnosis research has studied the clinical enterprise, that is, treatments and programs, with little attention to the policy or system perspective. Despite widespread endorsement of integrated dual diagnosis services (13,50–53), there continues to be a general failure at the federal and state levels to resolve problems related to organization and financing (see below). Thus, despite the emergence of many excellent programs around the country, few if any large mental health systems have been able to accomplish widespread implementation of dual diagnosis services for persons with severe mental illness. We are aware of no specific studies of strategies to finance, contract for, reorganize, or train in relation to dual diagnosis services.

Lack of data on the cost of integrated dual diagnosis services and the cost savings of providing good care impedes policy development. Dual

diagnosis clients incur high treatment costs in usual services (54,55), and care is costly to their families (56), but effective treatment may be even more costly. Some studies suggest cost savings related to providing good services (57,58), but these are not definitive.

Another limitation of the research is the lack of specificity of dual diagnosis treatments. Interventions differ across studies, manuals and fidelity measures are rare, and no consensus exists on specific approaches to individual counseling, group treatment, family intervention, housing, medications, and other components. Current research will address some of these issues by refining specific components, although efficacy studies may identify complex and expensive interventions that will be impractical in routine mental health settings.

A majority of dual diagnosis clients respond well to integrated outpatient services, but clients who do not respond continue to be at high risk of hospitalization, incarceration, homelessness, HIV infection, and other serious adverse outcomes. Other than one study of long-term residential treatment (33), controlled research has not addressed clients who do not respond to outpatient services. Other potential interventions include outpatient commitment (59), treatments aimed at trauma sequelae (60), money management (61), contingency management (62), and pharmacological approaches using medications such as clozapine (63), disulfiram (64), or naltrexone.

Although a few studies have explored the specific treatment needs of dual diagnosis clients who are women (65,66) or minorities (21,67), particular program modifications for these groups need further validation. For example, many dual diagnosis programs have identified high rates of trauma histories and sequelae among women (46,68,69), and studies have suggested interventions to address trauma; however, no data on outcomes are yet available.

### **Implementation barriers**

Although integrated dual diagnosis services and other evidence-based practices are widely advocated, they

are rarely offered in routine mental health treatment settings (70). The barriers are legion.

#### *Policy barriers*

State, county, and city mental health authorities often encounter policies related to organizational structure, financing, regulations, and licensing that militate against the functional integration of mental health and substance abuse services (71). The U.S. public mental health and substance abuse treatment systems grew independently. In most states these services are provided under the auspices of separate cabinet-level departments with separate funding streams, advocacy groups, lobbyists, enabling legislation, information systems, job classifications, and criteria for credentials. Huge fiscal incentives and strong political allies act to maintain the status quo.

Medicaid programs, which fund a significant and growing proportion of treatment for persons with severe mental illness, vary substantially from state to state in the types of mental health and substance abuse services they fund. In most states, mental health and substance abuse agencies have little control over how Medicaid services are reimbursed or administered, which makes it difficult for public systems to ensure that appropriate services are accessible. Medicare, the federal insurance program for elderly and disabled persons, generally pays for a more limited scope of mental health and substance abuse services. Together Medicaid and Medicare pay for more than 30 percent of all behavioral health services, but their impact on dual diagnosis services has not been studied (72).

#### *Program barriers*

At the local level, administrators of clinics, centers, and programs have often lacked the clear service models, administrative guidelines, contractual incentives, quality assurance procedures, and outcome measures needed to implement dual diagnosis services. When clinical needs compel them to move ahead anyway, they have difficulty hiring a skilled workforce with experience in provid-

ing dual diagnosis interventions and lack the resources to train current supervisors and clinicians.

#### *Clinical barriers*

The beliefs of the mental health and substance abuse treatment traditions are inculcated in clinicians, which diminishes the opportunities for cross-fertilization (73). Although an integrated clinical philosophy and a practical approach to dual diagnosis treatment have been clearly delineated for more than a decade (16), educational institutions rarely teach this approach. Consequently, mental health clinicians typically lack training in dual diagnosis treatment and have to rely on informal, self-initiated opportunities for learning current interventions (74). They often avoid diagnosing substance abuse when they believe that it is irrelevant, that it will interfere with funding, or that they cannot treat it. Clinicians trained in substance abuse treatment, as well as recovering dual diagnosis clients, could add expertise and training, but they are often excluded from jobs in the mental health system.

#### *Consumer and family barriers*

Clients and their families rarely have good information about dual diagnosis and appropriate services. Few programs offer psychoeducational services related to dual diagnosis, although practical help from families plays a critical role in recovery (75). Family members are often unaware of substance abuse, blame all symptoms on drug abuse, or attribute symptoms and substance use to willful misbehavior. Supporting family involvement is an important but neglected role for clinicians.

Consumers often deny or minimize problems related to substance abuse (40) and, like other substance abusers, believe that alcohol or other drugs are helpful in alleviating distress. They may be legitimately confused about causality because they perceive the immediate effects of drugs rather than the intermediate or long-term consequences (76). The net result is that the individual lacks motivation to pursue active substance abuse treatment, which can reinforce clinical inattention.

#### **Implementation strategies**

There are no proven strategies for overcoming the aforementioned barriers to implementing dual diagnosis services, but some suggestions have come from systems and programs that have had moderate success.

#### *Policy strategies*

Health care authorities in a majority of, and possibly all, states have current initiatives for creating dual diagnosis services. Because health care policy is often administered at the county or city level, hundreds of individual experiments are occurring. One initial branch point involves the decision to focus broadly on the entire behavioral health system—that is, on all clients with mental health and substance abuse problems—or more narrowly on services for those with severe mental illness and co-occurring substance abuse. We examine here only strategies for dual diagnosis clients with severe mental illness, for whom the implementation issues are relatively distinct.

Commonly used system-level strategies include building a consensus around the vision for integrated services and then conjointly planning; specifying a model; implementing structural, regulatory, and reimbursement changes; establishing contracting mechanisms; defining standards; and funding demonstration programs and training initiatives (77). To our knowledge, few efforts have been made to study these efforts at the system level.

Anecdotal evidence indicates that blending mental health and substance abuse funds appears to have been a relatively unsuccessful strategy, especially early in the course of system change. Fear of losing money to cover nontraditional populations often leads to prolonged disagreements, inability to develop consensus, and abandonment of other plans. As a less controversial, preliminary step, the mental health authority often assumes responsibility for comprehensive care, including substance abuse treatment, for persons with severe mental illness, while the substance abuse authority assists by pledging to help with training and planning.

This limited approach enables the

mental health system to attract and train dual diagnosis specialists who can subsequently train other clinicians and programs. Without structural, regulatory, and funding changes to reinforce the training, however, the expertise may soon disappear—a common experience after demonstration projects. Thus many experts advise that policy issues should be addressed early in the process of implementation to avoid wasting efforts on training (78–80).

New costs to the mental health system for dual diagnosis training could be offset by greater effectiveness in ameliorating substance-abusing behaviors that are associated with hospitalizations. However, saving costs over time assumes that providers are at risk for all treatment costs, that is, that providers have incentives to invest more in outpatient services in order to spend less on inpatient services. Despite the growth of managed care, providers rarely bear complete financial responsibility for the treatment of clients with severe mental illness.

#### *Program strategies*

At the level of the mental health clinic or program leadership, the fundamental task is to begin recognizing and treating substance abuse rather than ignoring it or using it as a criterion for exclusion (81). After consensus-building activities to prepare for change, staff need training and supervision to learn new skills, and they must receive reinforcement for acquiring and using these skills effectively. One common strategy is to appoint a director of dual diagnosis services whose job is to plan and oversee the training of staff, the integration of substance abuse awareness and treatment into all aspects of the mental health program, and the monitoring and reinforcement of these activities through medical records, quality assurance activities, and outcome data.

Experts identify the importance of having a single leader for program change (82). Fidelity measures for integrated dual diagnosis services can facilitate successful implementation at the program level (50,83). Monitoring and reinforcing mechanisms

also emphasize client-centered outcomes, such as abstinence and employment.

#### *Clinical strategies*

Mental health clinicians need to acquire knowledge and a core set of skills related to substance abuse that includes assessing substance abuse, providing motivational interventions for clients who are not ready to participate in abstinence-oriented treatment, and providing counseling for those who are motivated try to maintain abstinence. Clinicians adopt new skills as a result of motivation, instruc-

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*Recent  
research  
offers evidence  
that integrated dual  
diagnosis treatments  
are effective, but basic  
interventions are rarely  
incorporated into the  
mental health programs  
in which these  
clients receive  
care.*

■

tion, practice, and reinforcement (84). Because substance abuse affects the lives of the great majority of clients with severe mental illness—as a co-occurring disorder, family stressor, or environmental hazard—all clinicians should learn these basic skills. Otherwise substance abuse problems will continue to be missed and untreated in this population (85,86).

For example, all case managers should recognize and address substance abuse in their daily interactions, as should housing staff, employ-

ment specialists, and other staff. Until professional educational programs begin teaching current dual diagnosis treatment techniques (87), mental health system leaders will bear the burden of training staff.

Some staff will become dual diagnosis specialists and acquire more than the basic skills. These individuals will be counted on to lead dual diagnosis groups, family interventions, residential programs, and other specialized services.

#### *Consumer- and family-level strategies*

Clients and family members need access to accurate information. Otherwise their opportunities to make informed choices, to request effective services, and to advocate for system changes are severely compromised. Consumer demand and family advocacy can move the health care system toward evidence-based practices, but concerted efforts at the national, state, and local levels are required. Researchers can facilitate their efforts by offering clear messages about the forms, processes, and expected outcomes of evidence-based practices. Similarly, local programs should provide information on available dual diagnosis services to clients and their families.

As consumers move into roles as providers within the mental health system and in consumer-run services, they also need training in dual diagnosis treatments. Local educational programs, such as community colleges, as well as staff training programs should address these needs.

#### **Conclusions**

Substance abuse is a common and devastating comorbid disorder among persons with severe mental illness. Recent research offers evidence that integrated dual diagnosis treatments are effective, but basic interventions are rarely incorporated into the mental health programs in which these clients receive care. Successful implementation of dual diagnosis services within mental health systems will depend on changes at several levels: clear policy directives with consistent organizational and financing supports, program changes to incorpo-

rate the mission of addressing co-occurring substance abuse, supports for the acquisition of expertise at the clinical level, and availability of accurate information to consumers and family members.

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## The Evidence

### Selected Bibliography

#### Literature reviews

Drake, R. E., & Brunette, M. F. (1998). Complications of severe mental illness related to alcohol and other drug use disorders. In M. Galanter (Ed.), *Recent developments in alcoholism (Vol. XIV, Consequences of alcoholism: medical, neuropsychiatric, economic, cross-cultural)*, pp. 285-299). New York: Plenum.

Summarizes research on the effects of alcohol and drug abuse on the course of severe mental illness.

Drake, R. E., Mueser, K. T., Brunette, M. F., & McHugo, G.J. (2004). A review of treatments for people with severe mental illnesses and co-occurring substance use disorders. *Psychiatric Rehabilitation Journal*, 27(4), 360-374.

- Is a comprehensive review of research on Integrated Treatment for Co-Occurring Disorders.
- Covers a wide range of research, including early demonstration programs in establishing the feasibility of Integrated Treatment in community support service settings.



Drake, R. E., Essock, S. M., Shaner, A., Carey, K. B., Minkoff, K., Kola, L., et al. (2001). Implementing dual diagnosis services for clients with severe mental illness. *Psychiatric Services*, 52(4), 469-476.

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- Provides an updated review of the epidemiology of co-occurring disorders.
- Describes integrated treatment approaches for co-occurring disorders with specific recommendations for different types of psychiatric disorders, including schizophrenia, bipolar disorder, depression, and anxiety disorders.

Mueser, K. T., Drake, R. E., & Wallach, M. A. (1998). Dual diagnosis: A review of etiological theories. *Addictive Behaviors*, 23(6), 717-734.

- Reviews the research literature on different theories accounting for the high rate of substance abuse in consumers.
- Challenges the prevailing hypothesis that high rates of substance abuse and serious mental illness could be explained by “self-medicating” distressful symptoms.
- Marshals evidence suggesting that some excess comorbidity is due to increased biological sensitivity to the effects of drugs and alcohol in consumers.

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Includes a summary of the characteristics and needs of people with co-occurring disorders, a description of evidence-based practices and a *Five-Year Blueprint for Action*.

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## Historical context for Integrated Treatment for Co-Occurring Disorders

Kushner, M. G., & Mueser, K. T. (1993). Psychiatric co-morbidity with alcohol use disorders. In *Eighth special report to the U.S. Congress on alcohol and health* (NIH Pub. No. 94-3699, pp. 37-59). Rockville, MD: U.S. Department of Health and Human Services.

- Early comprehensive review of the epidemiology, correlates, and outcome of co-occurring disorders.
- Summarizes research on the negative effects of psychiatric comorbidity on the course and outcome of treatment for substance abuse.

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Describes obstacles in traditional treatment approaches to effective intervention for co-occurring disorders.

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These two publications summarize problems with traditional approaches to co-occurring disorders, including administrative, clinical, and philosophical barriers to accessing intervention for both disorders.

## Principles of Integrated Treatment for Co-Occurring Disorders

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Describes essential ingredients for an integrated service system for treating serious mental illnesses and substance use disorders.

Mueser, K. T., Drake, R. E., & Noordsy, D. L. (1998). Integrated mental health and substance abuse treatment for severe psychiatric disorders. *Practical Psychiatry and Behavioral Health*, 4, 129-139.

- Summarizes the fundamental ingredients of effective Integrated Treatment programs, including comprehensiveness, assertive outreach, assertive and protective living environment, motivation-based intervention, and long-term perspective.

- Explains the stages of treatment (engagement, persuasion, active treatment, relapse prevention), which guide practitioners in selecting interventions appropriate for consumers' level of motivation to address substance use disorders.

Ziedonis, D., & Fisher, W. (1996). Motivation-based assessment and treatment of substance abuse in patients with schizophrenia. *Directions in Psychiatry*, 16, 1-7.

Provides overview of motivation-based approach to assess and treat co-occurring disorders.

## Implementation and administrative issues

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Torrey, W. C., Drake, R. E., Cohen, M., Fox, L. B., Lynde, D., Gorman, P., et al. (2002). The challenge of implementing and sustaining integrated dual disorders treatment programs. *Community Mental Health Journal*, 38(6), 507-521.



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## State and local administrative perspectives

Fox, T. S., & Shumway, D. L. (1995). Human resource development: Training and motivating staff to work with dually diagnosed clients. In A. F. Lehman & L.B. Dixon (Eds.), *Double jeopardy: Chronic mental illness and substance use disorders* (pp. 265-276). Switzerland: Harwood Academic Publishers.

Describes how to cultivate practitioners and administrators in developing Integrated Treatment for Co-Occurring Disorders.

Mercer-McFadden, C., Drake, R. E., Clark, R. E., Verven, N., Noordsy, D. L., & Fox, T. S. (1998). *Substance abuse treatment for people with severe mental disorders: A program manager's guide*. Concord, NH: New Hampshire-Dartmouth Psychiatric Research Center.

Useful guide for program managers and anyone else with administrative responsibility for establishing and maintaining high-quality integrated programs for co-occurring disorders.

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## Financing and cost-effectiveness of Integrated Treatment for Co-Occurring Disorders

Clark, R. E., Teague, G. B., Ricketts, S. K., Bush, P. W., Xie, H., McGuire, T. G., et al. (1998). Cost-effectiveness of assertive community treatment versus standard case management for persons with co-occurring severe mental illness and substance use disorders. *Health Services Research*, 33(5 Pt.1), 1285-1308.

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Addresses cost of legal system involvement in consumers with co-occurring disorders.

Dickey, B., & Azeni, H. (1996). Persons with dual diagnoses of substance abuse and major mental illness: Their excess costs of psychiatric care. *American Journal of Public Health*, 86(7), 973-977.

Documents the high cost of standard (non-integrated) treatment approaches to substance abuse in consumers.

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## Additional readings for program leaders and public mental health authorities

Batalden, P. B., & Stoltz, P. K. (1993). A framework for the continual improvement of health care: Building and applying professional and improvement knowledge to test changes in daily work. *The Joint Commission Journal on Quality Improvement*, 19(10), 424-447.

Gowdy, E. A., & Rapp, C. A. (1989). Managerial behavior: The common denominators of effective community based programs. *Psychosocial Rehabilitation Journal*, 13(2), 31-51.

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## Fidelity measures for Integrated Treatment for Co-Occurring Disorders

Jerrell, J. M., & Ridgely, M. S. (1999). Impact of robustness of program implementation on outcomes of clients in dual diagnosis programs. *Psychiatric Services*, 50(1), 109-112.

Documents that better substance abuse outcomes in consumers with co-occurring disorders are associated with higher program fidelity to the Integrated Treatment model.

McHugo, G. J., Drake, R. E., Teague, G. B., & Xie, H. (1999). Fidelity to assertive community treatment and client outcomes in the New Hampshire dual disorders study. *Psychiatric Services*, 50(6), 818-824.

Shows that consumers in Assertive Community Treatment (ACT) programs that implemented Integrated Treatment with high fidelity to the model had better substance abuse outcomes than those in low-fidelity programs.

## Practice manuals

Center for Substance Abuse Treatment (2005). *Substance abuse treatment for persons with co-occurring disorders*. Treatment Improvement Protocol (TIP) Series 42: DHHS Publication No. (SMA) 05-3922. Rockville, MD: Substance Abuse and Mental Health Services Administration.

- Provides practical information about treating consumers with co-occurring disorders.
- Has separate chapters on treatment systems, linkages for mental health and substance abuse treatment, mood disorders, anxiety disorders, personality disorders, psychotic disorders, and pharmacology management.

Drake, R. E., Merrens, M. R., & Lynde, D. W. (2005). *Evidence-based mental health practice: A textbook*. New York: W.W. Norton.

- Introduces the concepts and approaches of evidence-based practices for treating serious mental illnesses.
- Describes the importance of research in intervention science and the evolution of evidence-based practices.
- Includes a chapter for each of five evidence-based practices and provides historical background, practice principles, and an introduction to implementation. Vignettes highlight the experiences of staff and consumers.
- Provides an excellent, readable primer for the *Evidence-Based Practices Implementation Resource Kits*.

Mueser, K. T., Noordsy, D. L., Drake, R. E., & Fox, L. (2003). *Integrated treatment for dual diagnosis: Effective intervention for severe mental illness and substance abuse*. New York: Guilford Press.

- Provides a comprehensive clinical guide for treating co-occurring disorders from which some of the material in the KIT is drawn.

- Has information on assessment, including forms and instruments.
- Describes ancillary treatment strategies, such as residential and other housing approaches, involuntary intervention, vocational rehabilitation, and psychopharmacology.
- Gives detailed guidelines and vignettes. Individual (including case management, motivational interviewing, and cognitive behavioral counseling), group (including persuasion, active treatment, social skills training, and self-help groups), and family (including individual family and multiple-family group) approaches are described.
- Includes educational handouts that cover different topics on mental illness, substance abuse, and their interactions which can be duplicated for education with consumers and family members.

Watkins, T. R., Lewellen, A., & Barrett, M. C. (2001). *Dual diagnosis: An integrated approach to treatment*. Thousand Oaks, CA: Sage Publications.

- Discusses strategies for integrating substance abuse treatment with care for mental illness.
- Has separate chapters that address different psychiatric disorders, including schizophrenia, bipolar disorder, depression, anxiety disorders, and severe personality disorders.

## Substance abuse

Johns, A. (2001). Psychiatric effects of cannabis. *The British Journal of Psychiatry* 178; 116-122.

Kinney, J. (2000). *Loosening the grip: A handbook of alcohol information* (6<sup>th</sup> ed.). Boston: McGraw-Hill.

Thombs, D. L. (1999). *Introduction to addictive behaviors*. 2<sup>nd</sup> ed. The Guilford substance abuse series. New York: Guilford Press.

Weiss, R. D., & Mirin, S. M. (1987). *Cocaine*. Washington, D.C.: American Psychiatric Press.

## Assessment and treatment planning

Carey, K. B., & Correia, C. J. (1998). Severe mental illness and addictions: Assessment considerations. *Addictive Behaviors*, 23(6), 735-748.

Discusses common issues practitioners face in assessing substance abuse in consumers and provides solutions to those problems.

Connors, G. J., Donovan, D. M., & DiClemente, C. C. (2001). *Substance abuse treatment and the stages of change: Selecting and planning interventions*. The Guilford substance abuse series. New York: Guilford Press.

A helpful book on treatment planning based on consumers' motivation to change their addictive behavior.

Donovan, D. M. and Marlatt, G. A (Eds.) (1988). *Assessment of addictive behaviors*. The Guilford behavioral assessment series. New York: Guilford Press.

- The introductory chapter on assessment of addictive behaviors is outstanding.
- This book also has many chapters on specific drugs and approaches that are quite good.

Drake, R. E., Rosenberg, S. D., & Mueser, K. T. (1996). Assessing substance use disorder in persons with severe mental illness. *New Directions for Mental Health Services*, 70, 3-17.

Describes many obstacles to accurate assessment of substance abuse in consumers with co-occurring disorders and strategies for overcoming these obstacles.

McHugo, G. J., Drake, R. E., Burton, H. L., & Ackerson, T. H. (1995). A scale for assessing the stage of substance abuse treatment in persons with severe mental illness. *The Journal of Nervous and Mental Disease*, 183(17), 762-767.

Contains information about assessing stages of treatment for consumers with co-occurring disorders.

Mueser, K. T., Drake, R. E., Clark, R. E., McHugo, G. J., Mercer-McFadden, C., & Ackerson, T. (1995). *Toolkit for evaluating substance abuse in persons with severe mental illness*. Cambridge, MA: Evaluation Center @ HSRI.

- Describes three practitioner-administered scales for consumers with co-occurring disorders, including the Alcohol Use Scale, the Drug Use Scale, and the Substance Abuse Treatment Scale.
- Includes software with the scales and psychometric testing for the scales.
- Has information about training practitioners on using the scales, establishing and maintaining reliability, and validity.

Noordsy, D. L., McQuade, D. V., & Mueser, K. T. (2002). Assessment considerations. In H. L. Graham, A. Copello, M. J. Birchwood, & K. T. Mueser (Eds.), *Substance misuse in psychosis: approaches to treatment and service delivery* (pp. 159-180). Chichester, England: Wiley.

- Describes principles of assessing substance abuse in consumers.
- Explains four steps of assessment: identification, classification, functional assessment and analysis, and treatment planning.
- Describes specific methods for linking assessment to treatment.

Rosenberg, S. D., Drake, R. E., Wolford, G. L., Mueser, K. T., Oxman, T. E., Vidaver, R. M., et al. (1998). The Dartmouth assessment of lifestyle instrument (DALI): A substance use disorder screen for people with severe mental illness. *The American Journal of Psychiatry*, 155(2), 232-238.

- Describes brief screening instrument (DALI) for identifying substance abuse in consumers.
- Presents data showing that DALI outperforms other screening instruments in consumers with co-occurring disorders.

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## Engagement

Rapp, C. A. (1998). *The strengths model: Case management with people suffering from severe and persistent mental illness*. New York: Oxford University Press.

- Describes the engagement process in consumers.
- Helpful for anyone attempting to engage consumers with co-occurring disorders in a treatment relationship.

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## Stages of treatment and motivational enhancement

Carey, K. B., Purnine, D. M., Maisto, S. A., Carey, M. P., & Barnes, K. L. (1999). Decisional balance regarding substance use among persons with schizophrenia. *Community Mental Health Journal*, 35(4), 289-299.

Describes using decisional balance approach to help consumers with co-occurring disorders weigh the advantages and disadvantages of continued substance use.

D’Zurilla, T. J., & Nezu, A. M. (1999). *Problem-solving therapy: A social competence approach to clinical intervention* (2<sup>nd</sup> ed.). New York: Springer Publishing Company.

Explains problem-solving therapy, which can be applied to substance abuse or mental illness problems in consumers with co-occurring disorders.

Graham, H. L., Copello, A., Birchwood, M. J., Orford, J., McGovern, D., Maslin, J., et al. (2002). Cognitive-behavioral integrated approach for psychosis and problem substance use. In H. L. Graham, A. Copello, M. J. Birchwood, & K. T. Mueser (Eds.), *Substance misuse in psychosis: approaches to treatment and service delivery* (pp. 181-206). Chichester, England: Wiley.



- Describes cognitive-behavioral approach to treating substance abuse in consumers.
- Includes numerous useful clinical examples.

Miller, W. R., & Rollnick, S. (2002). *Motivational interviewing: Preparing people for change*. (Second ed.). New York: Guilford Press.

- About stages of change and recovery from substance abuse.
- Useful for practitioners working with consumers with co-occurring disorders.

Osher, F. C., & Kofoed, L. L. (1989). Treatment of patients with psychiatric and psychoactive substance use disorders. *Hospital and Community Psychiatry*, 40, 1025-1030.

Introduces and describes the concept of stages of treatment (engagement, persuasion, active treatment, relapse prevention) that help practitioners gear treatment interventions to consumers' individual motivational states.

Rollnick, S., Mason, P., & Butler, C. (1999). *Health behavior change: A guide for practitioners*. Edinburgh: Churchill Livingstone.

- Another helpful reference on the stages of change and recovery from substance abuse.
- Describes substance abuse counseling and relapse prevention counseling.

Marlatt, G. A., & Gordon, J. R. (1985). *Relapse prevention: Maintenance strategies in the treatment of addictive behaviors*. The Guilford clinical psychology and psychotherapy series. New York: Guilford Press.

- Describes principles of substance abuse relapse prevention.
- Was written originally for work with the substance abuse population.
- Much of the book applies to consumers who have achieved sobriety and are motivated to prevent relapses of their substance abuse.

Monti, P. M., Abrams, D. B., Kadden, R. M., & Cooney, N. L. (1989). *Treating alcohol dependence: A coping skills training guide treatment manual for practitioners*. New York: Guilford Press.

- About cognitive-behavioral treatment of substance abuse.
- Provides an introduction to basic techniques that are effective for working with consumers with co-occurring disorders in the active treatment stage.

## Group treatment for co-occurring disorders

Bellack, A. S., & DiClemente, C. C. (1999). Treating substance abuse among patients with schizophrenia. *Psychiatric Services*, 50(1), 75-80.

Describes social skills training approach to co-occurring disorders treatment.

Bellack, A. S., Mueser, K. T., Gingerich, S., & Agresta, J. (1997). *Social skills training for schizophrenia: A step-by-step guide*. Treatment manuals for practitioners. New York: Guilford Press.

- Addresses how to conduct social skills training groups for consumers.
- Gives specific curriculum (steps of skills) for helping consumers refuse substances and deal with substance abuse situations.

Mueser, K. T., & Noordsy, D. L. (1996). Group treatment for dually diagnosed clients. *New Directions for Mental Health Services*, 70, 33-51.

- Describes four different types of group interventions for co-occurring disorders, including educational, stage-wise (persuasion and active treatment), social skills training, and self-help groups.
- Uses brief clinical vignettes to illustrate different group treatment methods.

Noordsy, D. L., Schwab, B., Fox, L., & Drake, R. E. (1996). The role of self-help programs in the rehabilitation of persons with severe mental illness and substance use disorders. *Community Mental Health Journal*, v. 32(1), pp. 71-81.

Summarizes difficulties and solutions associated with using self-help groups, such as Alcoholics Anonymous, for consumers with co-occurring disorders.

Roberts, L. J., Shaner, A., & Eckman, T. A. (1999). *Overcoming addictions: Skills training for People with schizophrenia*. New York: W.W. Norton.

Manual for providing social skills training to consumers with co-occurring disorders.

Weiss, R. D., Greenfield, S. F., & O'Leary, G. (2002). Relapse prevention for patients with bipolar and substance use disorders. In H. L. Graham, A. Copello, M. J. Birchwood, & K. T. Mueser (Eds.), *Substance misuse in psychosis: Approaches to treatment and service delivery* (pp. 207-226). Chichester, England: Wiley.

- Describes group intervention program for bipolar disorder and substance abuse.
- Includes useful clinical examples to illustrate group treatment methods.

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## Self-help

Alcoholics Anonymous (2005). *The AA group: Where it all begins (rev.)*. New York: Alcoholics Anonymous.

Alcoholics Anonymous (AA) is the largest self-help organization for addiction. This book describes its history, traditions, and approach to recovery from addiction, based on the 12 Steps of AA. Available from [http://www.aa.org/en\\_pdfs/p-16\\_theaagroup.pdf](http://www.aa.org/en_pdfs/p-16_theaagroup.pdf).

Hamilton, T., & Samples, P. (1994). *The twelve steps and dual disorders: A framework of recovery for those of us with addiction and an emotional or psychiatric illness*. Center City, MN: Hazelden.

Explains 12-Step approach to self-help substance abuse treatment in consumers.

*The Dual Disorder Recovery Book: A twelve-step program for those of us with addiction and an emotional or psychiatric illness*. (1993) Hazelden, Center City, Minnesota, 1993.

Discusses 12-step self-help approach to recovery for consumers with co-occurring disorders.

Trimpey, J. (1996). *Rational recovery: The new cure for substance addiction*. New York: Pocket Books.

- Rational Recovery (RR) is a self-help alternative to 12-step approaches (such as Alcoholics Anonymous).
- RR is less spirituality-oriented and more focused on helping consumers take control of their lives by accepting personal responsibility of themselves and others.

Vaillant, G. E. (1995). *The natural history of alcoholism revisited*. Cambridge, MA: Harvard University Press.

Analyzes natural pathways to recovery and explains how self-help and treatment can enhance the process.

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## Family treatment

Barrowclough, C. (2002). Family intervention for substance misuse in psychosis. In H. L. Graham, A. Copello, M. J. Birchwood, & K. T. Mueser (Eds.), *Substance misuse in psychosis: Approaches to treatment and service delivery* (pp. 227-243). Chichester: Wiley.

Describes family intervention approach for co-occurring disorders.



McFarlane, W. R. (2002). *Multifamily groups in the treatment of severe psychiatric disorders*. New York: Guilford Press.

Provides detailed guidance on forming and running multi-family groups for consumers and their families.

Mueser, K. T., & Fox, L. (2002). A family intervention program for dual disorders. *Community Mental Health Journal*, 38(3), 253-270.

- Describes family intervention program for co-occurring disorders that includes single-family sessions and multi-family group sessions.
- Presents pilot data from study of family program.

Mueser, K. T., & Gingerich, S. L. (in press). *Coping with schizophrenia: A guide for families* (2<sup>nd</sup> ed.). New York: Guilford Press.

- About family interventions.
- Includes a chapter on how family members can help a relative with a co-occurring disorder.

Mueser, K. T., & Glynn, S. M. (1999). *Behavioral family therapy for psychiatric disorders* (2<sup>nd</sup> ed.). Oakland, CA: New Harbinger Publications.

- Supplies a treatment manual for practitioners that describes family intervention model for mental illness, including strategies for addressing substance abuse in consumers with co-occurring disorders.
- Includes educational handouts on different psychiatric disorders, medications, and the interactions between mental illness and substance abuse.

## Psychopharmacological treatment

Day, E., Georgiou, G., & Crome, I. (2002). Pharmacological management of substance misuse in psychosis. In H. L. Graham, A. Copello, M. J. Birchwood, & K. T. Mueser (Eds.), *Substance misuse in psychosis: Approaches to treatment and service delivery* (pp. 259-280). Chichester, England: Wiley.

Detailed chapter that describes pharmacologically managing substance use disorders, including stimulants, opioids, other drugs, and alcohol.

Drake, R. E., Xie, H., McHugo, G. J., & Green, A. I. (2000). The effects of clozapine on alcohol and drug use disorders among patients with schizophrenia. *Schizophrenia Bulletin*, 26(2), 441-449.

Summarizes positive effects of clozapine on alcoholism outcomes in people with schizophrenia.

Green, A. I., Zimmet, S. V., Strous, R. D., & Schildkraut, J. J. (1999). Clozapine for comorbid substance use disorder and schizophrenia: Do patients with schizophrenia have a reward-deficiency syndrome that can be ameliorated by clozapine? *Harvard Review of Psychiatry*, 6(6), 287-296.

Theoretical paper in which authors suggest that the neurobiology of schizophrenia makes consumers with this disorder more susceptible to substance abuse and more likely to benefit from clozapine.

Mueser, K. T., & Lewis, S. (2000). Treatment of substance misuse in schizophrenia. In P. Buckley & J. L. Waddington (Eds.), *Schizophrenia and mood disorders: The new drug therapies in clinical practice* (pp. 286-296). Oxford: Butterworth-Heinemann.

Brief chapter that includes recommendations for pharmacological treatment of consumers with co-occurring disorders.

Mueser, K. T., Noordsy, D. L., Fox, L., & Wolfe, R. (2003). Disulfiram treatment for alcoholism in severe mental illness. *The American Journal on Addictions, 12*(3), 242-252.

Quantitatively describes positive, long-term outcomes of 30 consumers and alcoholism treated with disulfiram (Antabuse).

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## Infectious diseases

Bartlett, J. G., & Finkbeiner, A. K. (1998). *The guide to living with HIV infection: Developed at the Johns Hopkins AIDS clinic*. Johns Hopkins Press Health Books. Baltimore, MD: The John Hopkins University Press.

Coping with HIV and hepatitis.

Eversen G. T., & Weinberg, H. L (1999). *Living with Hepatitis C: A Survivor's Guide*. New York: Hatherleigh Press.

Coping with HIV and hepatitis.

Razzano, L. (2002). Issues in comorbidity and HIV/AIDS. In H. L. Graham, A. Copello, M. J. Birchwood, & K. T. Mueser (Eds.), *Substance misuse in psychosis: Approaches to treatment and service delivery* (pp. 332-346). Chichester, England: Wiley.

Practical chapter on the nature of HIV/AIDS in consumers with co-occurring disorders and treatment approaches.

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## First-person accounts

Alverson, H., Alverson, M., & Drake, R. E. (2000). An ethnographic study of the longitudinal course of substance abuse among people with severe mental illness. *Community Mental Health Journal, 36*(6), 557-569.

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Green, V. L. The resurrection and the life. *The American Journal of Orthopsychiatry, 66*(1), 12-16, 1996.

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## Family perspectives

Clark, R. E. (2001). Family support and substance use outcomes for persons with mental illness and substance use disorders. *Schizophrenia Bulletin, 27*(1), 93-101.

Describes family members' financial and time contributions in helping a relative with co-occurring disorders and the relationship between family assistance and improved outcomes.

Schwab, B., Clark, R. E., & Drake, R. E. (1991). An ethnographic note on clients as parents. *Psychosocial Rehabilitation Journal, 15*(2), 95-99.

Describes challenges faced by consumers with co-occurring disorders who are parents.





## The Evidence

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## The Evidence

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