



PCSS Guidance

Topic: Psychosocial Aspects of Treatment in Patients Receiving Buprenorphine/Naloxone

Original Author: Andrew J. Saxon, M.D.

Last Updated: 03/03/2014 (Maria A. Sullivan, M.D., Ph.D.)

Guideline Coverage:

This topic is also partially addressed in Clinical Guidelines for the Use of Buprenorphine in the Treatment of Opioid Addiction (TIP 40), pages 63-64.

<http://www.ncbi.nlm.nih.gov/books/NBK64245/pdf/TOC.pdf>

Clinical Questions:

1. Do my patients who are receiving buprenorphine/naloxone (bup/nx) for the treatment of opioid dependence need additional psychosocial treatment?
2. What type of psychosocial treatment should they get?
3. How much psychosocial treatment should they get?

Background:

Many patients with opioid dependence do not fully respond to buprenorphine treatment alone. They may continue some degree of illicit opioid use, they may continue problematic use of other substances, or they may continue to struggle with core life issues such as relationships and employment. The high rates of relapse seen in opioid dependence treatment, despite the pharmacological effectiveness of agonist treatment, suggest that many of the symptoms most distressing to opioid users during early abstinence are psychological rather than physical symptoms associated with the withdrawal syndrome (Amato et al., 2008). And for opioid-dependent patients maintained for five years or more on agonist treatment, psychological distress -- rather than drug-related variables -- has been found to have a significant negative impact on Quality of Life (De Maeyer et al., 2011). It makes sense that many patients would benefit from psychosocial interventions directed at the areas in which difficulties persist, although some uncertainty remains as to the optimal intensity or modality of psychosocial treatments for these patients. It is also important to note that all clinical trials of psychosocial treatments for opioid users have taken place in programs that also provide either opioid agonist maintenance (i.e. methadone or buprenorphine) or opioid antagonist treatment

Studies of various intensities of psychosocial services in licensed methadone programs do offer some illumination on this point: patients who receive minimal psychosocial services do not fare as well as those who receive moderate or high levels of services (McLellan et al., 1993; Calsyn et al., 1994; Avants et al., 1999). However, the lower cost-effectiveness of more intensive services may nullify any slight advantage they hold over moderate services (Avants et al., 1999; Kraft et al., 1997). A study evaluating different doses of buprenorphine for combined opioid and cocaine dependence did find that more frequent attendance at weekly individual psychotherapy appointments was associated with better outcomes (Montoya et al, 2005). One study that has rigorously addressed the question of intensity among buprenorphine treated patients supports the idea of providing a moderate intensity of psychosocial services. The study examined the efficacy of weekly extended medical management counseling (45-minute sessions) compared to weekly standard medical management counseling (20-minute sessions) and demonstrated no advantage of the extended counseling (Fiellin et al., 2006). Further, if social anxiety is present, methadone-maintained patients show better outcomes when assigned to a low-intensity psychosocial intervention. Socially anxious patients were drug-free longer during treatment, were more likely to be abstinent at treatment completion, and had greater reductions in HIV risk behaviors if assigned to a lower intensity intervention, which also carried one third the cost of the more intensive day treatment program (Avants et al., 1998).

In regard to modalities of psychosocial treatments, the accumulated general knowledge on modalities of psychotherapy indicates that individual therapist skill at creating a therapeutic alliance has more effect on outcomes than the particular type of therapy practiced (Horvath et al., 1993). More specifically, the therapeutic alliance has a strong effect on outcomes in psychosocial interventions for substance dependence (Meier et al., 2005). Nevertheless, a variety of specific modalities have been applied to patients with opioid dependence such as individual drug counseling, (Woody et al., 1995) cognitive-behavioral therapy, (Woody et al., 1984) supportive-expressive psychotherapy, (Woody et al., 1995) relapse preventions (McLellan et al., 1993) contingency management, and medical managements. Network therapy, involving the participation in treatment of drug-free significant others or family members, has also been found helpful in methadone-maintained patients. Most methadone patients have abstinent support people who are willing to participate in weekly treatment, and this participation is associated with high rates of attendance at scheduled sessions (Kidorf et al., 1997).

A meta-analysis of psychosocial interventions for substance use disorders that included interventions for opioid dependence found that both cognitive-behavior therapy and contingency management had positive moderate effects with a slight advantage for contingency management (Dutra et al., 2008). Psychotherapy performed better than drug counseling for patients with high psychiatric symptomatology (Woody et al., 1984). There is some evidence that targeting psychosocial services specifically to address patient problem areas is beneficial (McLellan et al., 1993). In particular, concurrent depression should be assessed during the outset of treatment for opioid dependence; if it does not improve, specific psychosocial interventions or antidepressant medications should be offered (Nunes et al., 2004). Further, combining opioid agonist maintenance with either psychological counseling or contingency management has been found to reduce rates of relapse to intravenous heroin use and related risk factors, thereby reducing the incidence of HIV and hepatitis C (Wang et al., 2014). A recent meta-analysis of randomized clinical trials for individuals with opioid dependence undergoing detoxification has confirmed that psychosocial therapies offered in addition to pharmacological treatment are more effective in terms of treatment completion, opioid use, and adherence (Amato et al., 2008). Moreover, treatment with buprenorphine and associated psychosocial counseling has been found to be safe and relatively easy to implement in a variety of treatment settings (Miotto et al., 2012).

In addition, self-help 12-step programs such as Narcotics Anonymous and Alcoholics Anonymous are widely attended and generally encouraged or even required by many addiction treatment programs. A large body of literature has addressed the benefit of self-help groups for alcohol dependence with methodological limitations precluding firm scientific validation of their value (Ferri et al., 2006). There has been very little study of use of such groups for opioid dependence. In the past and probably currently many of these groups tend to disapprove of, or even sometimes stigmatize, patients on agonist therapy. Studies of substance abuse treatment counselor attitudes have found that a 12-step orientation predicted less favorable attitudes toward buprenorphine (Rieckman et al., 2011, Knudsen et al., 2005). Nonetheless, these groups do offer readily available psychosocial treatment at no cost, and they are beneficial in providing peer support for relapse prevention and continued participation in treatment. In the past couple of years, there has been growing acceptance of buprenorphine among some prominent addiction treatment organizations. Clearly, more integrated treatment efforts are needed, combining the strengths of this traditional approach to addiction with newer pharmacotherapies that can prevent relapse and protect against overdose risk for recovering opioid users.

General Principles:

The majority of opioid dependent patients treated with buprenorphine will benefit from concurrent psychosocial treatment in addition to pharmacotherapy. Treatment providers should encourage engagement in psychosocial treatment. The quality of the therapeutic alliance between psychosocial therapist and patient is probably more important than the type of therapy applied. A modest intensity and frequency of psychosocial treatment is probably sufficient for most patients, particularly those with social anxiety. Appropriate psychosocial treatments, offered in conjunction with pharmacotherapy for opioid dependence, can be valuable in supporting patients' recovery efforts. Providing such referrals can help to address the substantial public impact of opioid dependence. Current guidelines for the treatment of opioid dependence by PCSS-MAT are consistent with those developed by the American society of Interventional Pain Physicians (ASIPP) and the American Psychiatric Association (Nicholis et al., 2010) in recommending comprehensive

treatment with pharmacotherapies such as buprenorphine/naloxone, methadone, or naltrexone combined with psychosocial therapy.

Recommendations:

Level of evidence: **High - randomized trials**

- 1) Refer patients receiving buprenorphine/naloxone for some type of psychosocial intervention (or provide these services onsite).
- 2) For most patients weekly or monthly psychosocial intervention is an adequate frequency.

Recommendations:

Level of evidence: **Moderate - observational studies**

- 3) Since therapeutic alliance is a good predictor of benefit from psychosocial treatment, seek referral sources with whom patients report substantial positive rapport early in the course of psychosocial treatment.
- 4) Given that depression and other types of psychological distress are associated with dropout from treatment and relapse to opioid addiction, psychosocial treatments addressing such symptoms can improve treatment retention and outcome.

Recommendation:

Level of evidence: **Low - expert opinion/clinical experience**

- 5) Do not require patients to attend self-help groups, but encourage those with an interest to try such groups and to find a particular group where they feel accepted.

References:

- Amato L, Minozzi S, Davoli M, Vecchi S, Ferri MM, Mayet S. Psychosocial and pharmacological treatments versus pharmacological treatments for opioid dependence. *Cochrane Database Systematic Review* Rev 2008; 8(4): CD005031.
- Avants SK, Margolin A, Kosten TR, Rounsaville BJ, Schottenfeld RS. When is less treatment better? The role of social anxiety in matching methadone patients to psychosocial treatments. *Journal of Consulting and Clinical Psychology* 1998; 66(6): 924-31.
- Avants SK, Margolin A, Sindelar JL, Rounsaville BJ, Stine S, Cooney NL, Rosenheck RA, Li SH, Kosten TR. Day treatment versus enhanced standard methadone services for opioid-dependent patients: a comparison of clinical efficacy and cost. *American Journal of Psychiatry* 1999;156:27-33.
- Calsyn DA, Wells EA, Saxon AJ, Jackson TR, Wrede AF, Stanton V, Fleming C. Contingency management of urinalysis results and intensity of counseling services have an interactive impact on methadone maintenance treatment outcome. *Journal of Addictive Diseases* 1994;13:47-63.
- De Maeyer J, Vanderplasschen W, Lammertyn J, van Nieuwenhuizen C, Sabbe B, Broekaert E. Current quality of life and its determinants among opioid-dependent individuals five years after starting methadone treatment. *Quality of Life Research* 2011; 20(1): 139-50.
- Dutra L, Stathopoulou G, Basden SL, Leyro TM, Powers MB, Otto MW. A meta-analytic review of psychosocial interventions for substance use disorders. *American Journal of Psychiatry* 2008;165:179-87.
- Ferri M, Amato L, Davoli M. Alcoholics Anonymous and other 12-step programmes for alcohol dependence. *Cochrane Database Systematic Reviews* 2006;3:CD005032.
- Fiellin DA, Pantalon MV, Chawarski MC, Moore BA, Sullivan LE, O'Connor PG, Schottenfeld RS. et al. Counseling plus buprenorphine-naloxone maintenance therapy for opioid dependence. *New England Journal of Medicine* 2006;355:365-74.
- Horvath AO, Luborsky L. The role of the therapeutic alliance in psychotherapy. *Journal of Consulting & Clinical Psychology* 1993;61:561-73.
- Kidorf M, Brooner RK, King VL. Motivating methadone patients to include drug-free significant others in treatment: a behavioral intervention. *Journal of Substance Abuse Treatment* 1997;14(1):23-8.
- Knudsen HK, Duchame LJ, Roman PM, Link T. Buprenorphine diffusion: the attitudes of substance abuse treatment counselors. *Journal of Substance Abuse Treatment* 2005; 29(2):95-106.
- Kraft MK, Rothbard AB, Hadley TR, McLellan AT, Asch DA. Are supplementary services provided during methadone maintenance really cost-effective? *American Journal of Psychiatry* 1997;154:1214-9.

- McLellan AT, Arndt IO¹⁰, Metzger DS, Woody GE, O'Brien CP. The effects of psychosocial services in substance abuse treatment. *JAMA* 1993;269:1953-9.
- Meier PS, Barrowclough C, Donmall MC. The role of the therapeutic alliance in the treatment of substance misuse: a critical review of the literature. *Addiction* 2005;100:304-16.
- Miotto K, Hillhouse M, Donovan R, Cunningham-Tathner J, Charuvastra C, Torrington M, Esagoff AE, Ling W. Comparison of buprenorphine treatment for opioid dependence in 3 settings. *Journal of Addiction Medicine* 2012; 6(1): 68-76.
- Montoya ID, Schroeder JR, Preston KL, Covi L, Umbricht A, Contoreggi C, Fudala PJ, Johnson RE, Gorelick DA. et al. Influence of psychotherapy attendance on buprenorphine treatment outcome. *Journal of Substance Abuse Treatment* 2005;28:247-54.
- Nicholis L, Bragaw L, Ruetsch C. Opioid dependence treatment and guidelines. *Journal of Managed Care Pharmacy* 2010; 16 (1 Supple B):S14-21.
- Nunes EV, Sullivan MA, Levin FR. Treatment of depression in patients with opiate dependence. *Biological Psychiatry* 2004; 56(10):793-802.
- Rieckmann TR, Kavas AE, McFarland BH, Abraham AJ. A multi-level analysis of counselor attitudes toward the use of buprenorphine in substance abuse treatment. *Journal of Substance Abuse Treatment* 2011; 41(3): 374-85.
- Wang L, Wei X, Wang X, Li J, Jia W. Long-term effects of methadone maintenance treatment with different psychosocial intervention models. *Public Library of Science One* 2014; 9(2): e87931.
- Woody GE, McLellan AT, Luborsky L, O'Brien CP, Blaine J, Fox S, Herman I, Beck AT. et al. Severity of psychiatric symptoms as a predictor of benefits from psychotherapy: the Veterans Administration-Penn study. *American Journal of Psychiatry* 1984;141:1172-7.
- Woody GE, McLellan AT, Luborsky L, O'Brien CP. Psychotherapy in community methadone programs: a validation study. *American Journal of Psychiatry* 1995;152:1302-8.

The following links may be helpful in locating professional counseling services or locations of self-help meetings:

<http://findtreatment.samhsa.gov/>

http://www.alcoholics-anonymous.org/en_find_meeting.cfm

<http://portaltools.na.org/portaltools/MeetingLoc/>

The following links may be helpful in locating buprenorphine (Suboxone, Subutex) providers:

http://www.suboxone.com/hcp/certification/physician_locator.aspx

<http://www.naabt.org/tl/buprenorphine-suboxone-treatment.cfm>

PCSS Guidances use the following levels of evidence*:

High = Further research is very unlikely to change our confidence in the estimate of effect

Moderate= Further research is likely to have an important impact on our confidence in the estimate of effect and may change the estimate.

Low = Further research is very likely to have an important impact on our confidence in the estimate of effect and is likely to change the estimate.

Very low = Any estimate of effect is very uncertain.

Type of evidence:

Randomized trial = **high**

Observational study = **low**

Any other evidence = **very low**

* Grading quality of evidence and strength of recommendations
British Medical Journal.2004;328:1490-