

Program Fidelity and Beyond: Multiple Strategies and Criteria for Ensuring Quality of Assertive Community Treatment

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Objective: In most public mental health systems, assertive community treatment (ACT) is a key service for people with severe mental illness. Although considerable research supports the effectiveness of ACT as an evidence-based practice, other research indicates a failure to adequately implement or sustain ACT, resulting in a diminishing quality of services over time. There have been relatively few attempts to develop and test strategies for implementing new ACT teams and for ensuring their operational and service quality over time. The authors provide a heuristic model for administrators and providers seeking to implement and sustain high-quality ACT programs. **Methods:** The authors conducted a selected review of literature about implementation and sustainability of ACT published between January 2000 and May 2011. The review was supplemented by the authors' experiences as researchers, administrators, trainers and consultants, and practitioners. **Results:** A total of 57 articles were found by searches in PsycINFO and PubMed. The authors propose four major approaches for assessing and ensuring the quality of ACT programs—policy and administrative, training and consultation, team operational, and program evaluation—and identify strategies for achieving the goals in each category. **Conclusions:** Although a scarcity of rigorous research makes firm conclusions difficult, the authors conclude that no single strategy is sufficient for ensuring adequate ACT implementation and services of consistently good quality. Rather, it is useful to implement a blend of policy and administrative, training and consultation, team operational, and program evaluation strategies. Additional rigorous research on implementing and sustaining the quality of ACT and other evidence-based practices is needed. (*Psychiatric Services* 63:743–750, 2012; doi: 10.1176/appi.ps.201100015)

Since its inception 35 years ago, assertive community treatment (ACT) has grown from a single, experimental treatment for people with severe and persistent mental illness (1) to a core service of many public mental health systems. Reviews of

studies of ACT have found that it is more effective than standard community mental health services (2–13).

Positive outcomes of ACT include decreased psychiatric hospitalizations, increased housing stability, greater treatment retention, and in-

creased consumer and family satisfaction. More modest associations have been found between ACT and decreased psychiatric symptoms and improved quality of life (4). Further, high-fidelity ACT teams are cost-effective when serving consumers with the highest hospitalization rates (10). ACT is recognized as an evidence-based practice (14–17); it continues to evolve by incorporating recovery-oriented and other evidence-based practices (18–20). ACT has been widely disseminated (21). Although some mental health systems incorporate basic principles of ACT into standard care rather than implement the full program (18), 45 states recently reported implementation of ACT or ACT-like services (22).

Unfortunately, ACT is not always adequately implemented or sustained. Some large-scale ACT implementation projects have been successful (23,24) and others less so (25–29). One survey found that less than one-third of more than 300 ACT programs satisfied a minimum set of program standards; most failed to implement or drifted away from the program's fundamental principles and operations (29). Given the positive correlation between fidelity and outcomes (5,30,31), inadequate model implementation suggests less effective services.

Failed implementation and program drift are not unique to ACT. Examples abound in mental health (32,33) and other fields (34), and researchers have begun to systematically evaluate the process of implementing and disseminating evidence-

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based practices, giving special attention to identifying strategies for successful implementation (35). Although these are promising developments, failed implementation is only one of a larger set of problems related to poor quality of services in the public mental health system (18). Additional attention needs to be directed to researching strategies for facilitating successful implementation of new programs and to sustaining the quality of services over time.

Methods

We conducted a selected review of literature published between January 2000 and May 2011 about implementation and sustainability of ACT treatment. The review was guided by searches in PsycINFO and PubMed that used the search term “assertive community treatment” coupled with either “implementation” or “sustainability.”

The review was intended to provide a heuristic model for administrators and providers seeking to implement and sustain high-quality ACT programs. Our approach built upon early recommendations for implementing ACT (36,37) and integrated the findings from implementation studies conducted more recently (23,38). We also drew upon theories of implementation (34) and incorporated our observations as ACT researchers, administrators, trainers and consultants, and practitioners.

Strategies for assessing and ensuring quality of ACT programs and other evidence-based programs across four broad categories were considered. The categories included policy and administration, training and consultation, team operations, and program evaluation. The individual components of this conceptual model were generally consistent with Fixsen and colleagues’ (34) seven core im-

plementation components but were tailored to ACT, and several emerging and “hypothesized” strategies were added.

Results

The search yielded 57 articles. Table 1 summarizes the four categories of strategies to promote high-quality ACT and lists examples of supporting studies.

Policy and administration

Program standards. Program standards should define key program elements of ACT (39)—for example, staffing, eligibility, organizational structure, and type and intensity of services—and reflect nationally recognized standards for high-quality ACT services. Without clearly defined practice standards, practice variability is common (40). Therefore, a fundamental first step for ensuring high-quality services is to de-

Table 1

Strategies for assessing and ensuring quality of assertive community treatment and other evidence-based practices, by category

Category	Supporting studies ^a	
	Assertive community treatment	Evidence-based practices
Policy and administration		
Program standards	Mancini et al. (38), Moser et al. (42)	Moser et al. (42)
Licensing and certification	Swain et al. (47)	Finnerty et al. (46), Swain et al. (47)
Financing	Mancini et al. (38), George et al. (39), Moser et al. (42), Swain et al. (47), Amodio et al. (48), Isett et al. (50)	Fixsen et al. (34), Moser et al. (42), Swain et al. (47), Blasinsky et al. (49), Isett et al. (50)
Dedicated leadership	McGrew et al. (30), Mancini et al. (38), Swain et al. (47), Isett et al. (50)	Magnabosco (45), Finnerty et al. (46), Swain et al. (47), Isett et al. (50), Torrey et al. (52), Rapp et al. (54), Blakely and Dziadosz (56)
Training and consultation		
Practice-based training	Isett et al. (50)	Fixsen et al. (34), Isett et al. (50), Joyce and Showers (60)
Ongoing consultation	Mancini et al. (38), Isett et al. (50)	Fixsen et al. (34), Isett et al. (50), Rapp et al. (54), Joyce and Showers (60), Bond (63), Rapp et al. (64)
Technical assistance centers	Mancini et al. (38), Moser et al. (42)	Moser et al. (42), Rapp et al. (64)
Learning collaboratives		Becker et al. (67)
Team operations		
Rigorous selection and retention of team members	Mancini et al. (38), Moser and Bond (72)	Fixsen et al. (34), Taylor (71), McEvoy and Cascio (74 ^b), Premack and Wanous (75 ^b)
Effective organizational culture and climate	Mancini et al. (38)	Hemmelgarn et al. (80), Glisson et al. (81), Glisson et al. (82)
Regular structured team supervision	Swain et al. (47), Carlson et al. (84)	Swain et al. (47), Rapp et al. (54), Rapp et al. (64), Barak et al. (83 ^b), Carlson et al. (84)
Program evaluation		
Outcome monitoring		Blaskinsky et al. (49), Marty et al. (85)
Service-data monitoring		Expert opinion only
Fidelity assessment	McHugo et al. (23), Bond et al. (90), Monroe-DeVita et al. (92)	McHugo et al. (23), Bond et al. (90)

^a The studies referenced are illustrative of the level of evidence for each set of strategies and are not meant to be an exhaustive list of the available evidence.

^b Study from other fields

fine ACT program standards (37,41). Well-defined state standards emerged as an important factor leading to successful implementation of ACT in Indiana and New York (38). In Indiana, successful implementation of ACT contrasted sharply with the difficulties faced in implementing integrated programs for treatment of co-occurring substance abuse and mental disorders, which lacked state standards (42). More recently, Washington State modified the national ACT standards (36) to provide important enhancements in several areas, including integration of other evidence-based and recovery-oriented practices (43). Several other states, including Iowa, Minnesota, New York, and Oklahoma, have also promulgated ACT standards.

Licensing and certification. Although establishing practice standards is a necessary first step in ensuring high-quality implementation, it is not sufficient; without contingencies or incentives, guidelines are often ignored in practice (44). Implementation of a rigorous process for licensing or certifying programs and linking funding to compliance with licensure standards is another key strategy (45). Certifying and licensing bodies can require teams to seek additional training and consultation to address areas of deficiency. Close linkage of standards, certification, and funding mechanisms is associated with higher program fidelity (46) and sustainability (47).

Financing. The most common barrier to implementing and sustaining ACT (39,48) and other evidence-based practices (49) is inadequate funding for both start-up, such as recruitment, training materials, and expert consultation, and ongoing implementation. Funding for staff time and for training before serving consumers is critical (50). Washington State addressed the need for start-up resources by providing ACT teams with funding equivalent to 33% of their annual funding (\$1.3 million and \$650,000 annually for teams serving 80–100 consumers and 42–50 consumers, respectively [43]). The funding allowed time for staff recruitment and training and for a gradual enrollment of consumers that gave staff a

greater opportunity to master new skills and learn to work within a team-based approach.

Funding strategies that support outreach efforts to consumers who may be difficult to locate or to engage in services, such as people with co-occurring disorders or who are homeless, are particularly crucial for ACT teams. Typical mental health funding reimburses providers for face-to-face service contacts and time with consumers; reliance on such a funding strategy for ACT, however, can unwittingly incentivize provision of services to persons who are most accessible and motivated at the expense of extensive efforts to find, engage, and serve persons who may be challenging to locate and serve. More innovative financing strategies, such as case rates and reimbursement for outreach efforts that do not result in face-to-face contacts, are needed to support efforts to find and engage such persons, who are often a priority group in need of ACT services. More generally, funding for ACT should be designed to support services to persons across all stages of change, from those needing intensive outreach and engagement to those who have made major improvements in functioning and recovery and are transitioning to less intensive services.

Adequate funding is important not only for program start-up but also for sustaining high-quality services (34, 41,47). Funding for ongoing implementation is critical for continued training, consultation, and fidelity monitoring (38). Long term, ACT teams require \$10,000 to \$15,000 per consumer per year (51), but the source of funding is as important as the amount. Currently, Medicaid is the most common funding source for ACT (38,50); however, given state and federal budget deficits, the viability of Medicaid is currently unpredictable. As such, it is increasingly important to explore the potential to blend Medicaid funding with other sources, such as revenues for substance abuse treatment or housing (37). Further, as national health care reform takes shape, it will be critical to ensure adequate funding for resource-intensive programs such as ACT.

Dedicated leadership. Leadership emerged as the most important factor affecting fidelity of implementation in the National Evidence-Based Practices Project (52). More specifically, having a leader at the state level with responsibility and authority to provide oversight and advocate for the use of a model (45–47,50,53,54) is particularly important to implementation; this finding is also true specifically for ACT (30,38). The individual who serves as a state ACT leader, a position that may require full-time status (36), should build and sustain support for ACT among stakeholders (50,55), encourage program development and strategic planning (55), and function as a watchdog for regulatory changes that affect ACT.

At the agency level, leaders are also needed to champion the model, ensure accountability (37), allocate sufficient team resources and monitor the team's fiscal sustainability (38), and ensure that preexisting policies and procedures do not interfere with fidelity (37). These responsibilities do not necessarily lie with one leader and may be shared by both middle and upper management (38) and supervisors (56). Further, a knowledgeable, positive team leader who is involved in direct services, enforces team accountability, and encourages independent decision making by team members has also been found to be key to successful ACT implementation (38).

Training and consultation

Practice-based training. Most experts recommend the use of didactic training and supplemental written materials (19,57), although insufficient alone (34), to provide background for skills training (37). Ideally, introductory training is provided to ACT staff, agency and regional management, and other key stakeholders, such as consumers and families. Distance learning, or e-learning, is a growing area in the field (58) and recent research suggests that it may be a viable option for disseminating didactic training in other evidence-based practices (59). Although this emerging approach has not been tested within ACT, future research in this area may be indicat-

ed, given the need to retrain staff in community mental health settings because of high turnover rates and the expenses associated with in-person training.

After initial orientation to ACT, practice- or skill-based training (34,50,60) in specific ACT interventions and in team operations, such as daily team meetings, individual treatment teams, and weekly consumer schedules, is important. Training is most effective when it is participatory, involving role-play, performance-based feedback, and exercises to learn and practice clinical and team operational skills (60). Direct observation and modeling, also key strategies (61), may be facilitated by viewing DVDs (57,62) as well as by live demonstration of techniques, for example, by conducting a mock daily team meeting and by shadowing an existing, high-quality ACT team (37). Booster and new-staff training (23,37) are especially important for teams struggling with implementation, fidelity, and staff turnover.

Ongoing consultation. Introductory training, supplemented only by the use of written materials and infrequent phone-based consultation, has limited effectiveness for overcoming implementation barriers (63). Training needs to be coupled with frequent, ongoing in vivo consultation and field mentoring (34,37,50,54,55, 60,63,64) by a skilled and collaborative ACT consultant (38). Consultation to the state or county mental health authority and the local agency at the earliest stages of project development is recommended (65). Consultation should include teaching skills and practice to reinforce skills (“practice-based coaching”) in a manner that fits the personal style of team members (34). Confidence in, and mastery of, new skills can also improve staff attitudes toward implementation and consumer change (56). Some research suggests that local program trainers should also receive monthly consultation (23) during start-up. Even mature ACT teams, however, will often require ongoing, periodic consultation and training, especially given the high rate of turnover among staff at community mental health programs (66).

Technical assistance centers. The need for regular training and consultation makes it advisable for funders to support a technical assistance center with expertise in ACT. State funding for technical assistance centers has been observed to be beneficial for implementing evidence-based practices (24,38,42,45,58,64). States, typically in partnership with universities, increasingly have developed their own local centers of excellence to provide ongoing training, consultation, fidelity monitoring, and outcome evaluation to support implementation and sustainability of evidence-based practices (24,43).

Learning collaboratives. Facilitating learning in a systematic manner across teams is another emerging strategy to ensure implementation of evidence-based practices (58,67). A learning collaborative generally is a multidisciplinary group that learns from experts how to improve performance, implements new learning and observes the results, shares experiences with other practice sites, and reconvenes to plan further practice improvement (68–70). A successful supported-employment learning collaborative (67) provided a possible model for ACT.

Team operations

Rigorous selection and retention of team members. Careful processes for selection of clinicians are critical for ensuring the quality of any mental health program (34,71), including ACT. Empirically based tests for predicting the success of ACT staff do not exist, but research suggests that common positive attributes, such as social intelligence, warmth, flexibility, initiative, persistence, pragmatism, “street smarts,” clinical skills, recovery beliefs, and an ability to work in vivo—in naturalistic community environments—and collaborate with team members (38,72,73), are helpful in providing ACT. Experience in traditional office-based mental health programs is not necessarily a good predictor of success as an ACT team member because ACT involves extensive outreach. In fact, many mental health workers prefer office-based settings (36). Organizational psychology studies found that realistic job

previews—which provide applicants with accurate information about job requirements—modestly improved staff retention (74,75). For ACT, realistic job previews should ideally incorporate shadowing community-based staff on other ACT teams.

Successful staffing includes attention to retention. Staff turnover disrupts service delivery and continuity of care and creates a need to repeat costly staff training (38,76,77). Staff burnout is one reason for high turnover (77,78). A recent quasi-experimental study of a brief burnout prevention program showed promising results among community health and ACT staff (79), although additional rigorous research is needed to determine the long-term effects for improving staff retention.

Effective organizational culture and climate. Organizational readiness to change existing practices in order to implement ACT is key to successful implementation (24,38); however, agency or team culture and climate have received little attention in the ACT or the adult mental health implementation literature. Agency willingness to embrace implementation of evidence-based practices and make adjustments in accordance with fidelity was a key factor in successful implementation of ACT in one recent study (38). Organizational interventions, such as conflict management training, continuous quality improvement processes, and other activities aimed at developing a positive culture and climate, are important determinants of service quality and outcomes (80–82) and are promising strategies for implementing and maintaining ACT teams.

Regular, structured team supervision. Quality is also enhanced if the team leader provides regular and structured supervision to each team member. Studies have found that regular group supervision focused on review of specific cases and on practice of specific skills is key to improving fidelity to evidence-based practices (54). Follow-up studies found that supervision was one factor related to sustainability of several evidence-based practices (47,64). Assistance with specific work tasks, provision of social and emotional support, and in-

terpersonal interaction by a supervisor also have a significant and positive impact on staff outcomes (83). More recent research points to the effectiveness of specific supervisor behaviors such as modeling, observing, and providing feedback about specific clinical skills; facilitating team meetings; promoting quality improvement activities; and using consumer outcomes to guide supervision (84).

Program evaluation

Outcome monitoring. Consumer outcomes are considered essential to evidence-based practices (85), yet ACT teams rarely collect outcome data (42). To ensure quality, however, ACT programs should consistently assess consumer outcomes, ensuring that there is a mechanism for receiving specific feedback about clinical outcomes (49,61) and applying it in the program's day-to-day work. It is essential to measure a range of consumer outcomes besides psychiatric hospitalization, which is the single dominant outcome measure for ACT (85), including symptom reduction and substance use, as well as housing, employment, and other measures of recovery (4,12,13,86). Assessments in these areas can be conducted by staff regularly—for example, during treatment plan reviews—and integrated into collaborative discussions with consumers about recovery goals. Although not routinely conducted by ACT teams, regular assessment of consumers with specific recovery measures such as the Recovery Assessment Scale (87) should be a focus for ACT in the future.

Service-data monitoring. Given that the successful implementation of evidence-based practices requires “consistent services in specific dosages and combinations” (50), it becomes imperative to collect consumer-level service data. Progress notes can be designed to capture data about service delivery, such as frequency, duration, and type of services, and used to prepare reports about key service variables for review by the ACT team and management. Service data can be analyzed both to report aggregate findings, such as average number of weekly contacts, and identify individual outliers, for example,

underserved persons. Service data may also be used to check the provision of other evidence-based practices, such as supported-employment services, and problems may be targeted for quality improvement. When analyzed by each consumer, results may be compared with treatment goals, and the level of services may be adjusted as needed to meet personal goals.

More generally, applying health information technology to inform clinical practice, such as collaborative and shared decision making (88,89), is a related, emerging area of focus within evidence-based practice implementation (58). The effectiveness of these technologies within ACT are not yet known but should be explored by future studies.

Fidelity assessment. One of the most popular and promising strategies for enhancing implementation involves the use of quantitative scales to measure fidelity to a program model (37,38,55,56,90). The Dartmouth Assertive Community Treatment Scale (DACTS) (91) is the fidelity scale that has been used most widely for ACT to date.

Merely assessing fidelity, however, is insufficient for enhancing implementation. A systematic approach to providing fidelity feedback to provider agencies was first codified in the National Implementing Evidence-Based Practices Project (23). Twenty-nine (55%) of the 53 sites achieved high fidelity within the two-year follow-up period, and most sites that had successfully implemented their programs had modified services based on feedback from fidelity reviews (90), suggesting the effectiveness of the fidelity review process. Fidelity reviews have since been used in several states to improve ACT implementation.

Although useful, the DACTS has been found to have several gaps and limitations (20,92). An enhanced version of the DACTS, called the Tool for Measurement of Assertive Community Treatment (TMACT) (unpublished measure, Monroe-DeVita M, Moser LL, Teague GB, 2011), has been developed to address many of these limitations. The TMACT has been adopted and piloted in several

states, including Washington, New York, Pennsylvania, Nebraska, Florida, and Missouri, as well as in Japan and Norway.

Discussion

At present, no single strategy is adequate for measuring and ensuring the quality of ACT programs (93). Fidelity measures are especially useful but are insufficient when used in isolation. A multifaceted blend of methods involving policy and administration, training and consultation, team operations, and program evaluation appears to be necessary and can operate synergistically. Resource constraints may cause practical difficulties at present for implementing some strategies. For example, state budgets may limit training, and underfunded fee-for-service systems may find it difficult to set aside staff time to collect outcome data. Still, the strategies outlined here provide a blueprint for what is possible and may be helpful for responding to the increased emphasis on quality of care expected in 2014 under the Affordable Care Act.

Some core strategies for ensuring high-quality ACT—such as program standards, staff training and ongoing consultation, and feedback on implementation, including fidelity assessment—have been previously suggested (37,38,61). However, this article offers several advancements of these efforts, including a greater number of strategies within a single heuristic model to consider for both implementation and ongoing service quality. Further, recommended strategies are based on the results from a number of studies conducted in the past decade, as well as several new strategies identified for field use and research testing within ACT.

These strategies are recommended for ACT, but they are likely to apply across different practices. Indeed, many of the strategies, such as staff selection, training and consultation, and fidelity and outcome evaluation, are also consistent with and support a general theory of implementation of evidence-based practices (34). However, our review suggests that this model needs to be tailored to ACT by the addition and augmentation of strategies recom-

mended in the ACT and evidence-based practice literature.

Conclusions

The various principles described in this review must still be regarded as working hypotheses because of a lack of rigorous research. The strategies reviewed are supported by some research, often qualitative in nature, and by expert opinion. Implementation science, in general, is in its infancy (34). Although much has been learned about the dissemination of evidence-based practices since the pioneering National Implementing Evidence-Based Practices Project (23), there is a critical need for additional research using rigorous methods to validate strategies for improving services and consumer outcomes. In the meantime, these guidelines provide practical recommendations for practitioners, administrators, and researchers and suggest important domains for measuring and ensuring the quality of ACT.

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References

1. Test MA, Stein LI: Alternative to mental hospital treatment: III. social cost. *Archives of General Psychiatry* 37:409–412, 1980
2. Baronet AM, Gerber GJ: Psychiatric rehabilitation: efficacy of four models. *Clinical Psychological Review* 18:189–228, 1998
3. Bedell JR, Cohen NL, Sullivan A: Case management: the current best practices and the next generation of innovation. *Community Mental Health Journal* 36:179–194, 2000
4. Bond GR, Drake RE, Mueser KT, et al: Assertive community treatment for people with severe mental illness: critical ingredients and impact on patients. *Disease Management and Health Outcomes* 9:141–159, 2001
5. Burns T, Catty J, Dash M, et al: Use of intensive case management to reduce time in hospital in people with severe mental illness: systematic review and meta-regression. *British Medical Journal* 335:336, 2007
6. Burns BJ, Santos AB: Assertive community treatment: an update of randomized trials. *Psychiatric Services* 46:669–757, 1995
7. Coldwell CM, Bender WS: The effectiveness of assertive community treatment for homeless populations with severe mental illness: a meta-analysis. *American Journal of Psychiatry* 164:393–399, 2007
8. Gorey KM, Leslie DR, Morris T, et al: Effectiveness of case management with severely and persistently mentally ill people. *Community Mental Health Journal* 34:241–250, 1998
9. Herdelin AC, Scott DL: Experimental studies of the program of assertive community treatment (PACT): a meta-analysis. *Journal of Disability Policy Studies* 10:53–89, 1999
10. Latimer EA: Economic impacts of assertive community treatment: a review of the literature. *Canadian Journal of Psychiatry* 44:443–454, 1999
11. Marshall M, Lockwood A: Assertive community treatment for people with severe mental disorders. *Cochrane Database of Systematic Reviews* 2:CD001089, 2000
12. Ziguras SJ, Stuart GW: A meta-analysis of the effectiveness of mental health case management over 20 years. *Psychiatric Services* 51:1410–1421, 2000
13. Mueser KT, Bond GL, Drake RE, et al: Models of community care for severe mental illness: a review of research on case management. *Schizophrenia Bulletin* 24:37–74, 1998
14. Kreyenbuhl J, Buchanan RW, Dickerson FB, et al: The Schizophrenia Patient Outcomes Research Team (PORT): updated treatment recommendations 2009. *Schizophrenia Bulletin* 36:94–103, 2010
15. Lehman AF, Steinwachs DM: Patterns of usual care for schizophrenia: initial results from the Schizophrenia Patient Outcomes Research Team (PORT) Client Survey. *Schizophrenia Bulletin* 24:11–32, 1998
16. Achieving the Promise: Transforming Mental Health Care in America. Pub no SMA-03-3832. Rockville, Md, Department of Health and Human Services, President's New Freedom Commission on Mental Health, 2003
17. Torrey WC, Drake RE, Dixon L, et al: Implementing evidence-based practices for persons with severe mental illnesses. *Psychiatric Services* 52:45–50, 2001
18. Drake RE, Deegan PE: Are assertive community treatment and recovery compatible? Commentary on "ACT and recovery: integrating evidence-based practice and recovery orientation on assertive community treatment teams." *Community Mental Health Journal* 44:75–77, 2008
19. Morse GA, McKasson M: Assertive community treatment; in *Evidence-Based Mental Health Practice—A Textbook*. Edited by Drake RE, Merrens MR, Lynde DW. New York, Norton, 2005
20. Salyers MP, Tsemberis S: ACT and recovery: integrating evidence-based practice and recovery orientation on assertive community treatment teams. *Community Mental Health Journal* 43:619–641, 2007
21. State Mental Health Agency Profiling System: 2010. Alexandria, Va, National Association of State Mental Health Program Directors Research Institute, 2010. Available at www.nri-inc.org/projects/profiles/ProfilesRevExp.cfm?State=All&Year=10&Keyword=ACT&Subject=Evidence-Based+Practices
22. Aron L, Honberg R, Duckworth K, et al: Grading the States 2009: A Report on America's Health Care System for Adults With Serious Mental Illness. Arlington, Va, National Alliance on Mental Illness, 2009
23. McHugo GJ, Drake RE, Whitely R, et al: Fidelity outcomes in the National Implementing Evidence-Based Practices Project. *Psychiatric Services* 58:1279–1284, 2007
24. Salyers MP, McKasson M, Bond GR, et al: The role of technical assistance centers in implementing evidence-based practices: lessons learned. *American Journal of Psychiatric Rehabilitation* 10:85–101, 2007
25. Godfrey JL: Reimplementing assertive community treatment: one agency's challenge of meeting state standards. Doctoral dissertation, Indiana University–Purdue University, Department of Psychology, 2010
26. Rosenheck R, Neale M, Leaf P, et al: Multisite experimental cost study of intensive psychiatric community care. *Schizophrenia Bulletin* 21:129–140, 1995
27. van Dijk BP, Mulder CI, Roosenschoon BJ, et al: Dissemination of assertive community treatment in the Netherlands. *Journal of Mental Health* 16:529–535, 2007
28. Bond GR: Variations in an assertive outreach model. *New Directions in Mental Health Services* 52:65–80, 1991
29. Deci PA, Santos AB, Hiott DW, et al: Dissemination of assertive community treatment programs. *Psychiatric Services* 46:676–678, 1995
30. McGrew JH, Bond GR, Dietzen L, et al: Measuring the fidelity of implementation of a mental health program model. *Journal of Consulting and Clinical Psychology* 62:670–678, 1994
31. McHugo GJ, Drake RE, Teague GB, et al: Fidelity to assertive community treatment and client outcomes in the New Hampshire dual disorders study. *Psychiatric Services* 50:818–824, 1999
32. Backer TE, Liberman RP, Kuehnel TG: Dissemination and adoption of innovative psychosocial interventions. *Journal of Consulting and Clinical Psychology* 54:111–118, 1986
33. Noble JH: The Benefits and Costs of Supported Employment for People With Mental Illness and With Traumatic Brain Injury in New York State. Buffalo, Research Foundation of the State University of New York, 1991

34. Fixsen D, Naoom SF, Blasé KA, et al: Implementation Research: A Synthesis of the Literature. Tampa, University of South Florida, Louis de la Parte Florida Mental Health Institute, National Implementation Research Network, 2005
35. Drake RE, Bond GR, Essock SM: Implementing evidence-based practices for people with schizophrenia. *Schizophrenia Bulletin* 35:704–713, 2009
36. Allness DJ, Knoedler WH: A Manual for ACT Start-Up: Based on the PACT Model of Community Treatment for Persons With Severe and Persistent Mental Illnesses. Arlington, Va, National Alliance on Mental Illness, 2003
37. Phillips SD, Burns BJ, Edgar ER, et al: Moving assertive community treatment into standard practice. *Psychiatric Services* 52:771–779, 2001
38. Mancini AD, Moser LL, Whitley R, et al: Assertive community treatment: facilitators and barriers to implementation in routine mental health settings. *Psychiatric Services* 60:189–195, 2009
39. George L, Durbin J, Koegl CJ: Systemwide implementation of ACT in Ontario: an ongoing improvement effort. *Journal of Behavioral Health Services Research* 36:309–319, 2009
40. Moser LL, Bond GR: Scope of agency control: assertive community treatment teams' supervision of consumers. *Psychiatric Services* 60:922–928, 2009
41. Gold PB, Meisler N, Santos AB: The program of assertive community treatment: implementation and dissemination of an evidence-based model of community-based care for persons with severe and persistent mental illness. *Cognitive and Behavioral Practice* 10:290–303, 2003
42. Moser LL, Deluca NL, Bond GR, et al: Implementing evidence-based psychosocial practices: lessons learned from statewide implementation of two practices. *CNS Spectrums* 9:926–936, 942, 2004
43. Bjorklund RW, Monroe-DeVita, M, Reed D, et al: Washington State's initiative to disseminate and implement high-fidelity ACT teams. *Psychiatric Services* 60:24–27, 2009
44. Shojania KG, Grimshaw JM: Evidence-based quality improvement: the state of the science. *Health Affairs* 24:138–150, 2005
45. Magnabosco JL: Innovations in mental health services implementation: a report on state-level data from the US Evidence-Based Practices Project. *Implementation Science* 1:13, 2006
46. Finnerty MT, Rapp CA, Bond GR, et al: The State Health Authority Yardstick (SHAY). *Community Mental Health Journal* 45:228–236, 2009
47. Swain K, Whitley R, McHugo GJ, et al: The sustainability of evidence-based practices in routine mental health agencies. *Community Mental Health Journal* 46: 119–129, 2010
48. Amodeo M, Lundgren L, Cohen A, et al: Barriers to implementing evidence-based practices in addiction treatment programs: comparing staff reports on motivational interviewing, adolescent community reinforcement approach, assertive community treatment, and cognitive-behavioral therapy. *Evaluation and Program Planning* 34: 382–389, 2011
49. Blasinsky M, Goldman HH, Unutzer J: Project IMPACT: a report on barriers and facilitators to sustainability. *Administration and Policy in Mental Health* 33:718–729, 2006
50. Isett KR, Burnam MA, Coleman-Beattie B, et al: The role of state mental health authorities in managing change for the implementation of evidence-based practices. *Community Mental Health Journal* 44: 195–211, 2008
51. Fact Sheet: Assertive Community Treatment: Investment Yields Outcomes. Arlington, Va, National Alliance on Mental Illness, 2007. Available at www.nami.org/Template.cfm?Section=ACT-TA_Center&template=/ContentManagement/ContentDisplay.cfm&ContentID=52382
52. Torrey WC, Bond GR, McHugo GJ, et al: Evidence-based practice implementation in community mental health settings: the relative importance of key domains of implementation activity. *Administration and Policy in Mental Health*, Epub May 15, 2011
53. Corrigan PW, Boyle MG: What works for mental health system change: evolution or revolution? *Administration and Policy in Mental Health* 30:379–395, 2003
54. Rapp CA, Etzel-Wise D, Marty D, et al: Evidence-based practice implementation strategies: results of a qualitative study. *Community Mental Health Journal* 44: 213–226, 2008
55. Rapp CA, Bond GR, Becker DR, et al: The role of state mental health authorities in promoting improved client outcomes through evidence-based practice. *Community Mental Health Journal* 41:347–363, 2005
56. Blakely TJ, Dziadosz GM: Creating an agency integrated treatment program for co-occurring disorders. *American Journal of Psychiatric Rehabilitation* 10:1–18, 2007
57. Assertive Community Treatment Evidence-Based Practice KIT. Rockville, Md, Substance Abuse and Mental Health Services Administration, Center for Mental Health Services, 2008
58. Drake RE, Bond GR: Implementing integrated mental health and substance abuse services. *Journal of Dual Diagnosis* 6:251–262, 2010
59. Dimeff LAW, Eric A, Harned MS: Can dialectical behavior therapy be learned in highly structured learning environments? Results from a randomized controlled dissemination trial. *Behavior Therapy* 42: 263–275, 2011
60. Joyce B, Showers B: Student Achievement Through Staff Development, 3rd ed. Alexandria, Va, Association for Supervision and Curriculum Development, 2002
61. Drake RE, Mueser KT, Torrey WC, et al: Evidence-based treatment of schizophrenia. *Current Psychiatry Reports* 2:393–397, 2000
62. ACT daily meeting [video streaming]. Indianapolis, ACT Center of Indiana, 2005. Available at www.psych.iupui.edu/ACT/ACTVideo1.html
63. Bond GR: Modest implementation efforts, modest fidelity, and modest outcomes. *Psychiatric Services* 58:334, 2007
64. Rapp CA, Goscha RJ, Carlson LS: Evidence-based practice implementation in Kansas. *Community Mental Health Journal* 46:461–465, 2010
65. Torrey WC, Finnerty M, Evans A, et al: Strategies for leading the implementation of evidence-based practices. *Psychiatric Clinics of North America* 26:883–897, 2003
66. Woltmann EM, Whitley R, McHugo GJ, et al: The role of staff turnover in the implementation of evidence-based practices in mental health care. *Psychiatric Services* 59:732–737, 2008
67. Becker DR, Drake RE, Bond GR, et al: A mental health learning collaborative on supported employment. *Psychiatric Services* 62:704–706, 2011
68. Kilo CM: A framework for collaborative improvement: lessons from the Institute for Healthcare Improvement's breakthrough series. *Quality Management in Health Care* 6:1–13, 1988
69. Ovretveit J, Bate P, Cleary P, et al: Quality collaboratives: lessons from research. *Quality and Safety in Health Care* 11: 345–351, 2002
70. Wilson T, Berwick DM, Cleary PD: What do collaborative improvement projects do? Experience from seven countries. *Joint Commission Journal on Quality and Safety* 29:85–93, 2003
71. Taylor AC: Employment specialists' competencies as predictors of employment outcomes. Doctoral dissertation, Indiana University–Purdue University, Department of Psychology, 2010. Available at scholarworks.iupui.edu/handle/1805/2141
72. Moser LL, Bond GR: Practitioner attributes as predictors of restrictive practices in assertive community treatment. *Journal of the American Psychiatric Nurses Association* 17:80–89, 2011
73. Stein LI, Santos AB: Assertive Community Treatment of Persons With Severe Mental Illness. New York, Norton, 1998
74. McEvoy GM, Cascio WF: Strategies for reducing employee turnover: a meta-analysis. *Journal of Applied Psychology* 70: 342–353, 1985
75. Premack SL, Wanous JP: A meta-analysis of realistic job preview experiments. *Journal of Applied Psychology* 70:706–719, 1985
76. Annapolis Coalition on the Behavioral Health Workforce: An Action Plan for Behavioral Health Workforce Development: A Framework for Discussion. Rockville, Md, Substance Abuse and Mental Health Services Administration, 2007

77. Morse GM, Salyers MP, Rollins AL, et al: Burnout in mental health services: a review of the problem and its remediation. *Administration and Policy in Mental Health* Epub May 1, 2011, doi 10.1007/s10488-011-0352
78. Paris M, Hoge MA: Burnout in the mental health workforce: a review. *Journal of Behavioral Health Services Research* 37:519–528, 2010
79. Salyers MP, Hudson C, Morse GA, et al: Breathe: a pilot study of burnout reduction in mental health professionals. *Psychiatric Services* 62:214–217, 2011
80. Hemmelgarn AL, Glisson C, James LR: Organizational culture and climate: implications for services and interventions research. *Clinical Psychology: Science and Practice* 13:73–89, 2006
81. Glisson C, Dukes D, Green P: The effects of the ARC organizational intervention on caseworker turnover, climate, and culture in children's service systems. *Child Abuse and Neglect* 30:855–880, 2006
82. Glisson C, Landsverk J, Schoenwald S, et al: Assessing the organizational social context (OSC) of mental health services: implications for research and practice. *Administration and Policy in Mental Health* 35:98–113, 2008
83. Barak MEM, Travis DJ, Pyun H, et al: The impact of supervision on worker outcomes: a meta-analysis. *Social Service Review* 83:3–32, 2009
84. Carlson L, Rapp CA, Eichler MS: The experts rate: supervisory behaviors that impact the implementation of evidence-based practices. *Community Mental Health Journal*, doi 10.1007/s10597-010-9367-4, 2010
85. Marty D, Rapp C, McHugo G, et al: Factors influencing consumer outcome monitoring in implementation of evidence-based practices: results from the national EBP implementation project. *Administration and Policy in Mental Health* 35:204–211, 2008
86. Marshall T: Evidence-based consultation. *British Journal of General Practice* 48: 1271, 1998
87. Corrigan PW, Salzer M, Ralph RO, et al: Examining the factor structure of the Recovery Assessment Scale. *Schizophrenia Bulletin* 30:1035–1041, 2004
88. Deegan PE, Drake RE: Shared decision making and medication management in the recovery process. *Psychiatric Services* 57:1636–1639, 2006
89. Deegan PE, Rapp C, Holter M, et al: Best practices: a program to support shared decision making in an outpatient psychiatric medication clinic. *Psychiatric Services* 59:603–605, 2008
90. Bond GR, Drake RE, Rapp CA, et al: Individualization and quality improvement: two new scales to complement measurement of program fidelity. *Administration and Policy in Mental Health* 36:349–357, 2009
91. Teague GB, Bond GR, Drake RE: Program fidelity in assertive community treatment: development and use of a measure. *American Journal of Orthopsychiatry* 68: 216–232, 1998
92. Monroe-DeVita M, Teague GB, Moser LL: The TMACT: a new tool for measuring fidelity to assertive community treatment. *Journal of the American Psychiatric Nurses Association* 17:17–29, 2011
93. Grimshaw JM, Shirran L, Thomas R, et al: Changing provider behavior: an overview of systematic reviews of interventions. *Medical Care* 39:II2–II45, 2001

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