Outcomes of Integrated Behavioral Health with Primary Care

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Background: Integrating behavioral health and primary care is beneficial to patients and health systems. However, for integration to be widely adopted, studies demonstrating its benefits in community practices are needed. The objective of this study was to evaluate effect of integrated care, adapted to local contexts, on depression severity and patients’ experience of care.

Methods: This study used a convergent mixed-methods design, merging findings from a quasi-experimental study with patient interviews conducted as part of Advancing Care Together, a community demonstration project that created an innovation incubator for practices implementing evidence-based integration strategies. The study included 475 patients with a 9-item Patient Health Questionnaire (PHQ-9) score >10 at baseline, from 5 practices.

Results: Statistically significant reductions in mean PHQ-9 scores were observed in all practices, ranging from 2.72 to 6.46 points. Clinically, 50% of patients had a ≥5-point reduction in PHQ-9 score and 32% had a ≥50% reduction. This finding was corroborated by patient interviews that demonstrated positive experiences with behavioral health clinicians and acquiring new skills to cope with adverse situations at work and home.

Conclusions: Integrating behavioral health and primary care, when adapted to fit into community practices, reduced depression severity and enhanced patients’ experience of care. Integration is a worthwhile investment; clinical leaders, policymakers, and payers should support integration in their communities. (J Am Board Fam Med 2017;30:130–139.)

Keywords: Behavioral Medicine, Community Health Services, Depression, Integrated Health Care Systems, Primary Health Care, Surveys and Questionnaires

Compelling evidence from randomized trials supports the integration of behavioral health care and primary care in improving health outcomes, the experience of health care, and costs.1–11 Behavioral health care, in this context, encompasses care for mental disorders, substance use problems, psychosocial and family problems, and health behavior change.12,13 However, the adoption of integrated care14 has been slow because of challenges implementing it in community settings, and relatively little research is available on context-specific implementation strategies.15–17

We previously documented the extensive processes used by diverse community mental health centers and primary care practices to integrate behavioral and primary care in the Advancing Care Together (ACT) demonstration project.15,16,18–27 The ACT evaluation showed that the shift to integrated care requires extensive health system redesign, including modifications to team composition,19,28 operations,19,22 use of physical space,21
and interprofessional interaction, and that variations in approaches have implications for the cost of the health system redesign and how well these efforts actually reach target patients. This body of work established clear and compelling evidence that community practices modify evidence-based integration approaches to fit their local context. However, little evidence demonstrates whether such locally adapted approaches are associated with improving patient outcomes in community settings. Therefore, among 5 ACT practices that used the 9-item Patient Health Questionnaire (PHQ-9) as a common measure of depression severity, we sought answers to 2 questions: (1) Were locally developed, unrestricted, and uncontrolled integration innovations associated with improvements in depression severity? (2) What were patients’ experiences of integrated care delivered via these community approaches?

Methods
This article reports on analyses from ACT, a Colorado integrated care demonstration project supported by the Colorado Health Foundation. The project was conducted over a 4-year period, from 2011 to 2015. The methods have been presented previously in detail. A mixed-methods learning evaluation generated key practice-based findings demonstrating how ACT practices implemented integrated care in the context of usual care delivery. The study received ethical approval by the institutional review boards of the Oregon Health & Science University, University of Texas Health Science Center at Houston, and University of Colorado. Specifics of the evaluation design, practice interventions, data collected, and analyses are described elsewhere. For this study, we used an interactive, convergent, mixed-methods design, using quantitative data to evaluate change in a standardized, clinical outcome (PHQ-9 score) and to develop a sampling frame for qualitative interviews, and using qualitative data to characterize patients’ experiences with integrated care.

Practice Sample
Eleven Colorado practices were selected by an external steering committee for participation in ACT. Practices varied with regard to type (primary care or mental health clinic), size, and ownership. Practices were not incented financially to integrate care (they received technical support and $50,000 per year to offset evaluation costs), nor were they told how to integrate—each adopted an evidence-based strategy particularly suited to their setting. For the quantitative analysis, we included 5 practices (2 community mental health centers [CMHCs] and 3 primary care practices) that used the PHQ-9 to screen and monitor patients for depression and were able to report patient-level data from their electronic health records (EHRs). Practices were excluded if they did not provide patient-level data (n = 3), used screening strategies that could not be aligned with other measures (n = 2), or focused exclusively on pregnant patients (n = 1). Table 1 describes key features of the 5 practices included in this analysis and the evidence-based integration strategies they implemented. Patients participating in qualitative, in-depth interviews to characterize their experience of integrated care were selected from 4 of the 5 practices included in the quantitative analysis.

Patient Sample
The patient sample for this study was derived from patient tracking sheets maintained by participating practices. This tracking sheet documented patients who were screened with the PHQ-9, those who screened positive, and receipt of integrated care services. For this study, we included patients who screened positive on the PHQ-9, defined as a PHQ-9 score ≥10. A PHQ-9 cutoff of ≥10 has been shown to be 88% sensitive and 88% specific for the diagnosis of major depression. Patient tracking sheets also served as the sampling frame to select patients for in-depth qualitative interviews. Patient selection purposively varied on demographic characteristics (ie, age, race/ethnicity, and sex) and on the level of exposure to practices’ integrated care interventions. A total of 47 patients across 4 practices agreed to be contacted for interviews, and 25 were interviewed in person (n = 8) or by phone (n = 17) to accommodate patient preferences and availability. Patients who agreed to be contacted but were not interviewed declined participation at time of contact, did not return or answer calls, or did not show at the time of interview.

Measures
The main quantitative outcome measure was change in PHQ-9 score from baseline. Secondary outcomes included the proportion of patients with a 50% reduction in PHQ-9 score and with a reduction ≥5 points on the PHQ-9. Patient
experience of integrated care, assessed from patient interviews, was the main qualitative outcome.

**Data Collection and Management**

Practices used a standardized protocol to extract clinical data from EHRs. Visit-level data for a minimum of 18 months from baseline were collected; these included sociodemographic variables (age, sex, race/ethnicity, and insurance), dates of visits, dates and scores of PHQ-9, and the presence of specific chronic diseases (diabetes, hypertension, thyroid disease, heart disease, asthma, and cancer) from EHR problem lists.

Interviews were conducted in the patient’s primary language: 2 were conducted in Spanish and the rest were in English. We discarded 1 interview.
because of poor audio quality, leaving 24 interviews for analysis. Importantly, interviewers were blinded to the quantitative results and to individual patient change in PHQ-9 to minimize bias. We used a semistructured interview guide that was field tested and refined. Interviews were audio-recorded and professionally transcribed. Transcripts were checked for accuracy, deidentified, and transferred data to Atlas.ti version 7 (Scientific Software Development GmbH, Berlin, Germany) for data management and analysis.

**Analyses**

Statistical analyses were conducted for each practice separately. Descriptive statistics characterized the patient sample and mixed effects linear regression models estimated change in PHQ-9 score between the baseline visit and the last visit after the intervention. Models were adjusted for sex, age, race/ethnicity, insurance type, and comorbidity. We also estimated change in PHQ-9 score every 6 months by constructing random coefficient growth-curve models (random intercepts, random slopes) that included a term for the number of months from baseline for every available visit. Finally, we examined potential modifying effects of comorbidity by including an interaction term in both models. All analyses were conducted using SAS software version 9.4 (SAS Institute Inc., Cary, NC).

We analyzed patient interview data to understand how patients perceived the benefits and drawbacks of integrated care. Data were analyzed using an immersion-crystallization approach. This was done in 3 steps. First, as a group, we listened to each patient interview and analyzed it while reviewing transcripts to identify and code patterns or themes. Second, we analyzed how emerging findings manifested across patients, noting patterns in the observed breadth of need and severity that emerged in patient stories, as well as variations in care experiences. Third, we explored in more detail how patients described the benefits and drawbacks of integrated care.

Qualitative and quantitative analyses were first conducted independently to ensure unbiased interpretation. After completing analyses, qualitative and quantitative findings were integrated together using the “merging” approach described by Fetters et al.

**Results**

Across the 5 ACT practices, we examined the effect of integrated care on change in PHQ-9 among 475 patients who had a PHQ-9 score ≥10 and at least 2 visits between 2012 and 2013. Three of the 5 practices reached >90% of patients eligible for screening over a 3-month period (Table 2). Of these patients, 25 were sampled for in-depth interviews during 2013 to 2014 to characterize their experience of integrated care.

<table>
<thead>
<tr>
<th>Practice ID</th>
<th>Screening REACH, (%)*</th>
<th>Patients Who Screened Positive for ACT Intervention (n)</th>
<th>Patients with a PHQ-9 Score ≥10 at Baseline (n)</th>
<th>Patients with a PHQ-9 Score ≥10 at Baseline and &gt;1 Visit (n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>90.0</td>
<td>675</td>
<td>181</td>
<td>104</td>
</tr>
<tr>
<td>2</td>
<td>91.0</td>
<td>842</td>
<td>372</td>
<td>103</td>
</tr>
<tr>
<td>3</td>
<td>90.0</td>
<td>539</td>
<td>224</td>
<td>179</td>
</tr>
<tr>
<td>4</td>
<td>12.1</td>
<td>80</td>
<td>77</td>
<td>24</td>
</tr>
<tr>
<td>5</td>
<td>2.2</td>
<td>716</td>
<td>323</td>
<td>65</td>
</tr>
</tbody>
</table>

*Screening REACH is defined as the percentage of target patients who were assessed for integrated care over a 3-month period. ACT, Advancing Care Together; PHQ-9, 9-item Patient Health Questionnaire.
change in adjusted mean PHQ-9, all practices showed a statistically significant decrease ranging from 6 points (standard error, 0.7; practice 1) to about 3 points (standard error, 0.7; practice 5). Growth-curve models also demonstrated significant decreases in PHQ-9 over 6 months for all practices. Patients of primary care practices showed larger decreases in PHQ-9 than those of CMHCs. The presence of common chronic conditions did not modify the effect of integrated care on PHQ-9 change at any of the practices (data not shown).

When examining the percentage of patients who experienced clinically meaningful improvements in PHQ-9 (Figure 1), overall half had a ≥5-point PHQ-9 score reduction (range, 38–61%), and a third had at least a 50% score reduction (range, 17–45%). Similar to changes observed in mean PHQ-9, a higher percentage of patients of primary care practices demonstrated improvement in PHQ-9 compared with patients at CMHCs.

Patients’ Experiences with Integration

Of 25 patients interviewed from 4 ACT practices, mean age was 50 years (standard deviation, 16.5 years); 67% were female, 71% were white, and 17% were Hispanic. Most patients reported positive experiences with integrated care in both primary care practices and CMHCs.

The majority of interviewed patients receiving integrated care reported that having the behavioral health clinician (BHC) and primary care clinician as part of the same team and under the same roof was beneficial; they appreciated the care they received, and that their clinicians were working and talking with each other. A small number of patients reported neutral to negative reactions to integrated care: dissatisfaction with a clinician for refusing to prescribe controlled medication for pain; dissatis-

Table 3. Characteristics of Patients with a 9-Item Patient Health Questionnaire Score ≥10

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Patients (n = 475)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Male sex*</td>
<td>146 (30.7)</td>
</tr>
<tr>
<td>Age (years), mean (SD)</td>
<td>43.9 (14.2)</td>
</tr>
<tr>
<td>Race/ethnicity†</td>
<td></td>
</tr>
<tr>
<td>Non-Hispanic white</td>
<td>366 (83.2)</td>
</tr>
<tr>
<td>Non-Hispanic black</td>
<td>6 (1.4)</td>
</tr>
<tr>
<td>Hispanic</td>
<td>50 (11.4)</td>
</tr>
<tr>
<td>Other</td>
<td>18 (4.1)</td>
</tr>
<tr>
<td>Insurance type</td>
<td></td>
</tr>
<tr>
<td>Private/commercial</td>
<td>149 (31.4)</td>
</tr>
<tr>
<td>Medicare</td>
<td>57 (12.0)</td>
</tr>
<tr>
<td>Medicaid</td>
<td>104 (21.9)</td>
</tr>
<tr>
<td>Self-pay</td>
<td>49 (10.3)</td>
</tr>
<tr>
<td>Unknown</td>
<td>116 (24.4)</td>
</tr>
<tr>
<td>Comorbidities</td>
<td></td>
</tr>
<tr>
<td>Cancer</td>
<td>10 (2.1)</td>
</tr>
<tr>
<td>Diabetes</td>
<td>70 (14.7)</td>
</tr>
<tr>
<td>Hypertension</td>
<td>111 (23.4)</td>
</tr>
<tr>
<td>Heart disease</td>
<td>46 (9.7)</td>
</tr>
<tr>
<td>Thyroid</td>
<td>80 (16.8)</td>
</tr>
<tr>
<td>Asthma</td>
<td>89 (18.7)</td>
</tr>
</tbody>
</table>

Data are n (%) unless otherwise indicated.
*0.2% missing.
†7.4% missing.

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Table 4. Effect of Implementing Integrated Care Strategies on Mean Change in the 9-Item Patient Health Questionnaire for Patients Receiving Care in Advancing Care Together Practices

<table>
<thead>
<tr>
<th>Practice ID</th>
<th>Patients (n)</th>
<th>Months in the Study, Mean (SD)</th>
<th>No. of Visits, Mean (SD)</th>
<th>PHQ-9 Score, Mean (SD)</th>
<th>Before/After Change in PHQ-9 Score, Mean (SE)</th>
<th>Adjusted* Change in PHQ-9 Score over 6 Months, Mean (SE)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>104</td>
<td>6.49 (4.6)</td>
<td>3.46 (2.6)</td>
<td>17.20 (4.1)</td>
<td>−6.87 (0.7)†‡</td>
<td>−3.19 (0.6)§</td>
</tr>
<tr>
<td>2</td>
<td>103</td>
<td>7.41 (4.7)</td>
<td>2.87 (1.8)</td>
<td>16.19 (4.3)</td>
<td>−5.61 (0.8)‡</td>
<td>−3.25 (1.1)‡</td>
</tr>
<tr>
<td>3</td>
<td>179</td>
<td>8.49 (4.6)</td>
<td>3.55 (1.6)</td>
<td>17.02 (4.3)</td>
<td>−4.30 (0.5)‡</td>
<td>−2.03 (0.4)‡</td>
</tr>
<tr>
<td>4</td>
<td>24</td>
<td>9.26 (3.7)</td>
<td>2.31 (0.5)</td>
<td>18.20 (3.1)</td>
<td>−4.06 (1.3)§</td>
<td>−3.12 (1.2)§</td>
</tr>
<tr>
<td>5</td>
<td>65</td>
<td>6.20 (4.1)</td>
<td>2.82 (1.1)</td>
<td>18.06 (4.2)</td>
<td>−2.97 (0.8)§</td>
<td>−1.50 (0.5)§</td>
</tr>
</tbody>
</table>

*Adjusted for race (non-Hispanic white, non-Hispanic black, Hispanic, other), age (continuous), payer source (private, Medicare, Medicaid, self-pay, other), and sex.
†P < .001.
‡P < .01.
§P < .05.

SD, standard deviation; SE, standard error; PHQ-9, 9-item Patient Health Questionnaire.
faction with a therapist who discharged the patient from a dialectical behavior therapy group following several missed sessions; and misalignment with the BHC because of perceived age differences (“she went to school with my kid”) or parenting philosophy (therapist had a “different view on teenagers than what I had”).

Patients in the CMHC setting reported that they valued the assistance they and their family members received with medical issues, health behavior change, and social support. As 1 patient reported, her son was the reason for initiating care at the CMHC. As can happen when a child is ill, the mother experienced emotional distress, and the clinicians at the CMHC were able to help with her and her family with their medical and behavioral health needs: “I kind of had a nervous breakdown because of everything that had happened....I have been struggling with some other health issues. I have been diagnosed with [chronic obstructive pulmonary disease] and have some really serious cholesterol problems. I totally had to change my diet—my way of living. I quit smoking...I see those people several times a week. . . . With a lot of therapy, some medication, not for all us, but for some of us, a lifestyle change . . . we actually are functional people, not just together, but individually” (patient 1, practice 3).

CMHC patients also reported that primary care clinicians played a valuable role in managing their behavioral health: “They really helped me—super helped me when my son passed away. [The physician assistant (PA)] is the 1 that handled me during that time and she done just fabulous...” (patient 2, practice 5). The PA helped this patient in a number of ways, 1 of which was to connect her with a grief support group.

In the primary care setting, patients valued the action and solution-oriented approach BHCs used to help them cope with common problems, such as managing anger, grief, and relationships. The following excerpt illustrates how a BHC helped a patient manage frustration toward her husband, who was not, in her opinion, dealing well with his own medical conditions: “I came in 1 day [to see the BHC] and I was totally beside myself. Just in tears and just ranting and raving. By the time I had seen her 3 weeks I was fine. . . . I took a lot away from my meetings with her. I have a couple of friends I talk with—I’s in Wisconsin. I’d go home and I’d call her. I’d say, ‘This is what she said. I did this and I did that.’ . . . Yeah. It worked really, really well...” (patient 3, practice 4).

Patients also valued how BHCs helped patients reframe how they viewed events, themselves, and others, and this helped them manage important relationships. For example, 1 patient reported that a BHC helped her manage her relationship with her grandchildren, despite her feelings of resentment and of being taken advantage of by her daughter-in-law: “She [the BHC] said for me to find that comfort place with the grandkids. . . . She is the 1 that helped me with that really bad. . . . She taught me how to put the grandkids first and take them to the park. And what time I do have them, just enjoy them right away...I do not know when I am going to see them again or what is going to
happen. But they always end up coming here anyway to Grandma's” (patient 4, practice 1).

We heard from patients that these skills were also applied to managing emotions and relationships in the workplace.

Patients received different levels of exposure to behavioral health care in the primary care setting, with some patients receiving 1 session, others receiving 3, and a few patients working with BHCs intermittently, as needed, or regularly over the course of a year. The example above shows how just 1 counseling session with a BHC can be helpful to a patient. The example below shows how patients may engage the BHC intermittently and as needed to prepare for surgery (“I know I need to go in and see her preop . . . she helps me to slow down and not have as huge expectation and disappointment in myself”), and to cope with life stresses, such as a spouse losing his job:

[The doctor] suggested it the first time. [My husband] had lost his job back then and he hadn’t gotten a new job yet. There was financial stress too. . . . She [the BHC] looks at you like she’s really listening . . . and she’s trying to figure out something to help you. . . . She really tries to give you information of what she has heard or knows or learned that might help, suggestions and all. . . . I nearly always come away from here with 1 thing at least and that 1 thing can make all the difference. . . . It’ll pop up in your mind at a weird time, something that we talked about. It’ll make me relax inside a little bit and say ‘okay, I am really expecting too much of myself right now’” (patient 5, practice 1).

Patients reported that BHCs listened and helped them find new solutions that they could act on to manage common life stressors, events, and problems. BHCs helped them recognize when they needed to reengage the BHC.

Discussion

Prior research on integrated behavioral health and primary care has focused on efficacy or effectiveness studies conducted under research-driven experimental conditions where homogeneity between practices and tight control are desired. In our previous work, we showed that community practices adopting integrated care modify evidence-based strategies to fit their local context. This study extends our previous research by demonstrating that among community practices implementing integrated care strategies relevant to their local setting and context, depression severity improved and patients perceived tangible benefits of integrated care.

CMHC and primary care practices differed in the magnitude of PHQ-9 change and in experiences of care. CMHC practices cared mostly for patients with serious and persistent mental illnesses and focused on integrating medical and substance use care. All the primary care practices, on the other hand, focused on managing depression in the context of providing whole-person care. This may explain the marginally smaller reduction observed in PHQ-9 among CMHCs. Yet, why did PHQ-9 scores change at all in the CMHC setting? Patient interview data might hold the answer: when behavioral health needs surfaced in CMHCs, the primary care clinician addressed these needs by, for example, briefly counseling patients in the course of medical care and making connections with additional services (eg, therapy group).

Evaluation of demonstration studies requires special appreciation. Such evaluations are complex and multilevel, and practices, while working toward a common target, are innovating in distinctive ways to accomplish their goals. The standards for randomized controlled studies (eg, fidelity, randomization, control) are often infeasible to apply in these situations. Flexibility and adaptability are called for.

It is in this context that the following study limitations should be recognized. First, this was a quasi-experimental study. We anticipated design limitations as a result of a lack of control groups and therefore collected and analyzed multiple types of data (practice surveys, EHR data, and practice staff and patient interviews) with the goal of triangulating qualitative and quantitative results, as presented in this article. Future studies would benefit from comparison groups to further enhance internal validity. Second, because outcomes were measured during the course of usual care and not at prespecified time points, it is possible that patients with less severe depression may not have returned for follow-up because they experienced improvements without intervention. Upon reanalyzing data in sensitivity analyses, assuming no change in PHQ-9 for patients without follow-up visits, over-
all reductions in PHQ-9 remained statistically significant (data not shown). Further, measuring outcomes during the usual course of care allowed us to examine change in PHQ-9 over a longer follow-up time period (6–9 months) than what is commonly prespecified in most research trials (6–12 weeks).41–44 Third, the before-and-after study design limits our ability to differentiate whether observed changes in PHQ-9 are better than usual care.45–47 However, we found that the approaches implemented by ACT practices resulted in 50% of patients experiencing at least a 5-point reduction in PHQ9 (range across practices, 38–61%). This level of reduction is considered to be clinically meaningful and beneficial,48 especially when observed among patients seen in busy community practices integrating care. At the very least, it suggests that implementing integrated care in community practices did not negatively affect outcomes. Fourth, ACT was not a study designed to improve depression care. Although practices focused their integration efforts on other conditions such as generalized anxiety disorder and substance use, patient samples were not large enough to do meaningful analyses. A composite outcome measuring delivery of integrated, whole-person care is needed to move beyond focusing on single-disease models, and this is an area for future research. Fifth, data on CMHCs included in our study are limited by small sample sizes, and therefore findings should be interpreted with caution. However, we included CMHCs in our study because integration is happening in both the primary care and CMHC settings in the United States, and the unique insight they provide into integration efforts in CMHCs warrants their inclusion. Finally, we do not have information on the percentage of patients who interacted with the integrated team. However, we included in Table 2 the percentage of patients who received integrated services from among those who screened positive over a 3-month period.21

This study makes an important contribution to translational T3 research, which focuses on exploring ways of applying recommendations, guidelines, or approaches to care in general practice and yields knowledge about how interventions work in community settings.49 ACT accomplished this by creating an innovation incubator for practices focused on locally adapting and implementing approaches to integrate whole-person care. Through collaborators and evaluation, ACT practices, program leaders, and evaluators came together to learn from each other. The products of that partnership resulted in both practical knowledge for how integration can be implemented in community settings and evidence that these efforts have a positive impact on patients.5–28

This study provides evidence that when primary care–behavioral health integration approaches were translated to fit into community practices, they reduced depression severity and was perceived by patients as beneficial. Patients liked having behavioral and medical care under 1 roof; they appreciated that different members of their care team worked together, they reported feeling the positive effects of integration after only a few visits, and their outcomes improved. Findings from this study, together with a robust body of evidence from randomized controlled trials, makes a compelling case for practices to adopt integrated care and for payers to make this model feasible through finance reform.

To see this article online, please go to: http://jabfm.org/content/30/2/130.full.

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