HEALTH

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BUILDING BRIDGES
Lessons from a Pittsburgh Partnership to Strengthen Systems of Care for Maternal Depression

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Sarah Frith | Susan L. Lovejoy | Sajith Pillai
Dana Schultz | Harold Alan Pincus

Sponsored by UPMC for You
This work was conducted under contract with UPMC for You. It was funded by a consortium of local and state organizations. The research was performed in RAND Health, a division of the RAND Corporation.

Library of Congress Cataloging-in-Publication Data is available for this publication.


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Published 2010 by the RAND Corporation
1776 Main Street, P.O. Box 2138, Santa Monica, CA 90407-2138
1200 South Hayes Street, Arlington, VA 22202-5050
4570 Fifth Avenue, Suite 600, Pittsburgh, PA 15213-2665
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Maternal depression is a widespread public health issue that takes a toll on the well-being and livelihood of mothers and their families. It demands a strong community response involving people who share a common vision to strengthen the health and resilience of all mothers and their families in need of help and support. —Mental Health America and National Center for Children in Poverty (2008)

Between January 2007 and June 2010, members of the Allegheny County Maternal and Child Health Care Collaborative—a broad-based community coalition that has been operating in Allegheny County, Pennsylvania, since 2002—designed, implemented, and evaluated the Allegheny County Maternal Depression Initiative. The initiative is a local systems-change effort focused on increasing identification, referrals, and engagement in treatment as needed and appropriate for women at high risk for maternal depression. This report describes how and why the initiative was created, the processes through which it was implemented and evaluated, and the results and lessons learned. It concludes with recommendations for practice and policy change designed to expand and sustain the initiative’s achievements.

The Problem

Documented high rates of prevalence, especially among low-income populations, combined with significant adverse consequences for both mother and child, make maternal depression the number one complication of childbirth in the United States. Empirical research has demonstrated that interventions for depression are effective for both the general population and ethnically diverse and impoverished groups (Miranda et al., 2003). Nevertheless, for many reasons, women with maternal depression are not identified, and, even when they are identified, they are not effectively engaged in treatment (Swartz et al., 2005).
Barriers to identifying and treating women with maternal depression exist in numerous forms and on many different levels, as documented in the literature and through the collaborative’s work, including the following:

- Many physicians do not routinely screen for maternal depression using a validated instrument.
- Capacity for appropriately triaging, referring, and treating women at high risk for maternal depression is limited in many physical health care settings.
- Existing gaps between the physical and behavioral health care systems make care coordination difficult.
- Consumer access is impeded by cultural, perceptual, and real-life issues and stressors that are not easily resolved.
- Available treatment protocols might not meet the needs and preferences of pregnant or postpartum women.

Aims and Focus of the Initiative

Since low-income women are at higher risk for maternal depression than other women (Lanzi et al., 1999; Miranda and Green, 1999; Onunaku, 2005; Siefert et al., 2000) and less likely to receive adequate care (Agency for Healthcare Research and Quality, 2004; Skaer et al., 2000; Wang, Berglund, and Kessler, 2000; Young et al., 2001; Vesga-López et al., 2008), the collaborative chose to focus its systems-change efforts on improving service delivery for maternal depression within the local Medicaid system. The initiative had three aims:

- to improve the identification of maternal depression among Medicaid-eligible pregnant and postpartum women in Allegheny County
- to enhance access to available resources and services for women who screen positive for maternal depression
- to increase engagement in behavioral health treatment as needed and appropriate.

To this end, three components of service delivery were targeted for improvement at the systems level: screening, referral, and engagement in treatment.

The Conceptual Model of Systems Change

Figure S.1 presents the initiative’s conceptual model of systems change (adapted from Pincus, Pechura, Elinson, et al., 2001; Pincus, 2003; Pincus, Hough, et al., 2003; Pincus, Houtsinger, et al., 2005; Pincus, Pechura, Keyser, et al., 2006). This model recognizes that consumers and families are at the center of the process, signifying
the intent of the local Medicaid managed care system to create a “safety net” around women at high risk for maternal depression. It further acknowledges the roles of key stakeholder groups in driving and sustaining practice and policy improvements. Strengthening linkages between these groups is essential for achieving the initiative’s aims and, in so doing, ensuring that the system better meets the needs and preferences of women at high risk for maternal depression.

**Operational Framework of the Initiative**

The collaborative developed a protocol for the initiative that delineated the roles and responsibilities of key stakeholder groups in accordance with best-practice standards, the capacities and stated preferences of individual participating practices, and network provider requirements as set forth in the state contract for Medicaid managed care services. Table S.1 provides a brief description of these roles and responsibilities for key partners in each stakeholder group.

The protocol was implemented in two phases:

- Phase 1 implementation (December 2007–December 2008) focused on implementing and tracking the screening and referral components of the initiative protocol.
## Table S.1
### Initiative Partners and Their Roles and Responsibilities, by Key Stakeholder Group

<table>
<thead>
<tr>
<th>Stakeholder Group</th>
<th>Description</th>
<th>Roles and Responsibilities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medicaid-eligible consumers and families</td>
<td>Pregnant women or mothers with children under age 1 in Allegheny County presenting for care at a physical health practice participating in the initiative</td>
<td>The initiative’s target population and critical source of information on the needs and preferences of Medicaid-eligible women in Allegheny County.</td>
</tr>
<tr>
<td>Physical health practices and providers in the HealthChoices network</td>
<td>10 pediatrics, obstetrics and gynecology, and family medicine sites and their affiliated providers</td>
<td>Systematically screen target population for maternal depression using a validated screening tool; enhance access to available supports and services via referral; support the initiative’s data-collection efforts.</td>
</tr>
<tr>
<td>HealthChoices physical health MCOs</td>
<td>UPMC for You, Gateway Health Plan, Unison Health Plan, and their affiliated leaders and care management staff</td>
<td>Respond to referrals for members who screened positive for maternal depression; connect to behavioral health services as appropriate; serve as the system’s “safety net” for the target population; support the initiative’s data-collection efforts.</td>
</tr>
<tr>
<td>Behavioral health practices and providers in the HealthChoices network</td>
<td>A range of practices offering behavioral health treatment for maternal depression and their affiliated providers</td>
<td>Provide evidence-based treatments that meet consumers’ needs and preferences.</td>
</tr>
<tr>
<td>HealthChoices behavioral health MCO</td>
<td>Community Care and its affiliated leaders and care management staff</td>
<td>Work with initiative partners to arrange behavioral health treatment as needed and appropriate; support the initiative’s data-collection efforts.</td>
</tr>
<tr>
<td>State and local purchasers and policymakers</td>
<td>Pennsylvania Department of Public Welfare, Allegheny County Department of Human Services, Pennsylvania Department of Health; Allegheny County Health Department; and their affiliated leaders and staff</td>
<td>Establish guidelines and standards, performance measures, review processes, and related strategies for ensuring that state contractual requirements are appropriate for meeting the needs of pregnant and postpartum women served through the HealthChoices program; support related data-collection efforts as needed.</td>
</tr>
<tr>
<td>Other organizations in the community</td>
<td>Local funders, RUPHI, home-based service providers</td>
<td>Offer peripheral supports to ensure sustainable systems change.</td>
</tr>
</tbody>
</table>

**NOTE:** Community Care = Community Care Behavioral Health Organization.

*a HealthChoices manages Medical Assistance (Medicaid) in Allegheny County.*
• Phase 2 implementation (January 2009–February 2010) incorporated efforts to design and test various strategies for increasing referrals of women who screened positive for maternal depression to local physical health managed care organization (MCO) care managers for needed supports and services and enhancing their engagement in behavioral health treatment as needed and appropriate.

Over the course of the initiative, the collaborative also designed and carried out a range of strategies to support the implementation of the protocol and to ensure the overall success of the systems-change process. These strategies, which involved all stakeholder groups, are summarized in Table S.2 by phase of implementation. Based on the results of the phase 1 implementation, the collaborative modified and added components during phase 2.

**Initiative Evaluation Plan**

The collaborative designed a mixed-methods approach, using both qualitative and quantitative data, to evaluate the initiative. The evaluation indicators and data-collection instruments and data sources can be organized into two broad categories: organizational indicators and data-collection instruments and clinical indicators and data sources. The organizational indicators captured key features of systems change related to consumer and provider attitudes and behaviors; the clinical indicators captured key features of systems change related to care processes aligned with the initiative’s three aims. Figure S.2 illustrates how the data-collection tools and data sources align with the progression of a pregnant or postpartum woman through the processes of screening, referral, and engagement in treatment.

**Results of the Initiative**

Although it is not possible to disentangle specific cause-effect relationships among the strategies that were implemented as part of the initiative and the outcomes that were achieved, the results clearly show that, taken as a whole, the collaborative was successful in improving key organizational and clinical processes related to the achievement of its three aims, particularly as compared to reference points cited in the literature related to maternal depression screening, referral, and engagement in treatment for pregnant and postpartum women (Figure S.3).

Aim 1: To improve the identification of maternal depression among Medicaid-eligible pregnant and postpartum women in Allegheny County. Between December 2007 and December 2009, physical health providers participating in the initiative completed more than 8,500 screens on pregnant and postpartum women. Although the over-
all screening rate declined somewhat from phase 1 to phase 2, the overall 54-percent screening rate across all practices represents a significant accomplishment. The vast majority (86 percent) of participating physical health providers reported that they often, almost always, or always screened for maternal depression at a woman’s first prenatal care or postpartum visit using a validated screening tool. Nonetheless, increasing the screening rate represents a clear target for continued quality improvement.

**Aim 2: To enhance access to available resources and services for women who screen positive for maternal depression.** Among the nearly 1,200 women identified as high risk by a positive screen, 57 percent were referred by the provider to their physical health

**Table 5.2**
**Summary of Strategies to Support Protocol Implementation During Phases 1 and 2**

<table>
<thead>
<tr>
<th>Targeted Area of Focus</th>
<th>Phase 1 Strategy</th>
<th>Phase 2 Strategy</th>
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</thead>
<tbody>
<tr>
<td>Education and training of consumers and providers</td>
<td>Educational pamphlet about maternal depression and list of community resources</td>
<td>Additional consumer-supportive materials (e.g., “Prescription for Good Health”)</td>
</tr>
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<td></td>
<td>Provider training programs on use of validated maternal depression screening tool, referral, and engagement Website</td>
<td>Provider training sessions on mood disorders and motivational interviewing skills(^a)</td>
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<td></td>
<td></td>
<td>Policy forum on maternal depression practice and policy</td>
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<tr>
<td></td>
<td></td>
<td>Educational and networking workshop on home-based service programs</td>
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<tr>
<td></td>
<td></td>
<td>Public forum to disseminate initiative findings and recommendations</td>
</tr>
<tr>
<td>Listening and responding to consumers’ needs</td>
<td>Consumer focus groups</td>
<td>Focus on home-based service options</td>
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<tr>
<td></td>
<td>Participation in prenatal support groups</td>
<td></td>
</tr>
<tr>
<td>Use of evidence-based tools and protocols for depression screening and triage</td>
<td>EPDS with varying high-risk thresholds across practices, PHQ-2, and psychiatric history Decision tool for triaging consumers who screened positive</td>
<td>Use of warm transfers Efforts to improve communication between physical health providers and MCO care managers and consumers</td>
</tr>
<tr>
<td>Pathways and related infrastructure to support integrated care</td>
<td>Common referral fax form Procedures for obtaining informed consent All-partners meetings</td>
<td></td>
</tr>
<tr>
<td>Performance measurement and shared data collection to assess progress and inform ongoing improvement</td>
<td>Agreed-upon performance measures and data-collection procedures Ongoing analysis and information sharing Course corrections as needed</td>
<td>Stakeholder group discussions</td>
</tr>
</tbody>
</table>

**NOTE:** EPDS = Edinburgh Postnatal Depression Scale. PHQ-2 = Patient Health Questionnaire 2. 
\(^a\) Motivational interviewing is a brief, person-centered, goal-oriented counseling method for enhancing a person’s self-motivation for change by working with and resolving ambivalence.
MCO care managers. Overall, the referral rate improved from 47 percent in phase 1 to 65 percent in phase 2. Participating physical health providers also reported an increase in the frequency with which they referred women who screened positive to physical health MCO care managers. Overall, MCO care managers were able to reach just over half (53 percent) of their high-risk members. Improving this rate of contact and decreasing the average time between referral and first contact remain critical goals for the physical health MCO care managers.

**Aim 3: To increase engagement in behavioral health treatment as needed and appropriate.** Nearly one-half (46 percent) of the high-risk women referred had engaged in behavioral health treatment at some point. While some of these women engaged in
behavioral health treatment prior to the referral, 35 percent of referred women engaged in behavioral health treatment after being identified as being at high risk for maternal depression, which is considerably higher than the 20-percent engagement rate recently published for a similar population (Miranda et al., 2003). However, more work should be done to increase initial and sustained engagement in behavioral health treatment.

In other areas, the collaborative confronted challenges. For example, over the course of the initiative, it was difficult to ensure consistent and timely communication among those with shared responsibility for high-risk women. While the initiative protocol sought to open communication channels, in practice, the information did not always reach the individuals who needed it. Further, there was a considerable lag between a woman’s identification and referral and her ultimate engagement in behavioral health treatment, representing a target for continued quality improvement over time.
Top Ten Lessons Learned

In order to identify and prioritize the most important lessons learned through this initiative, the RUPHI team compared the results of the stakeholder group discussions held at the end of the initiative with quantitative and qualitative results that were collected over the course of the initiative. The resulting ten lessons listed here are described in more detail in Chapter Four.

1. There is no such thing as too much education or training on issues related to maternal depression, but training is not enough.
2. Numerous factors influence the needs and preferences of women who are at high risk for maternal depression.
3. Families’ negative views of or disappointing previous experiences with mental health services or referrals are pervasive and strong.
4. Physical health practices can integrate routine screening for maternal depression into the clinical care process.
5. Referrals within and across systems are difficult to execute.
6. The more links in the chain from screening to referral to engagement in treatment, the more likely the chain is to break, but shortening the chain is not a guaranteed solution.
7. Co-location can work if co-located providers are truly integrated into the care team.
8. Diffusion of responsibility in complex systems might not be completely avoidable, but it is remediable.
9. Effective health care requires transparency and sharing of information among providers and patients.
10. Clear expectations, performance measurement, agreed-upon quality standards, and mechanisms for accountability are key drivers of systems improvement.

Recommendations for Policy and Practice Change

Given the long-term, significant impact that maternal depression can have on maternal, child, and family health, the priority the state has placed on bridging existing gaps between physical and behavioral health care in the Medicaid system, and the obvious need for continued improvement related to maternal depression screening, referral, and engagement in treatment, the RUPHI team offers four sets of practice and policy recommendations for key stakeholder groups. These recommendations are provided in detail in Tables S.3–S.6.
Table 5.3
Recommendations to Improve Identification of Maternal Depression

<table>
<thead>
<tr>
<th>Stakeholder</th>
<th>Recommendation</th>
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| Pennsylvania General Assembly                    | Universal screening is the first step in a comprehensive state strategy designed to ensure that more women with maternal depression receive services as needed and appropriate. However, nothing more than additional screening will be accomplished without adequate capacity and explicit processes for referring women who screen positive for maternal depression to an array of accessible, effective, and culturally informed services that meet their needs and preferences. In this context, we recommend the following:  
   A. Mandate universal screening for maternal depression irrespective of insurance coverage.  
   B. Legislation mandating universal screening should also ensure that (1) the Department of Public Welfare and the Department of Insurance develop adequate capacity for timely referrals and treatment of publicly and privately insured pregnant and postpartum women who screen positive for maternal depression and (2) the Department of Public Welfare and the Department of Insurance, along with the Department of Health, are involved in adopting and promulgating rules and regulations necessary to carry out the purposes and provisions of this legislation. |
| HealthChoices physical health MCOs              | A. Establish maternal depression screening requirements for network providers who serve pregnant and postpartum women. These requirements should be consistent with evidence-based screening practices and professional organization standards and specify (1) validated screening tools acceptable for use, (2) appropriate screening intervals, (3) a common threshold for identifying probable maternal depression.  
   B. Revise existing perinatal depression measures or create new measures that align with evidence-based practices and standards for maternal depression screening.  
   C. Set explicit targets for improving the rate of maternal depression screening across network providers who serve pregnant and postpartum women.  
   D. Establish reporting, monitoring, and feedback systems to assess and improve the maternal depression screening performance of network providers.  
   E. Develop, implement, and evaluate various strategies to support network providers in meeting and exceeding their performance goals. |
| Physical health practices and providers in the HealthChoices network | A. Accelerate efforts to screen all pregnant and postpartum women with an acceptable validated screening tool, at the appropriate intervals, and using a common threshold for identifying probable maternal depression.  
   B. To the extent possible, incorporate an acceptable, validated maternal depression screening tool into the practice’s electronic medical record. |

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\[a\] The Pennsylvania Department of Insurance is responsible for administering the laws of the commonwealth as they pertain to the regulation of the insurance industry, in order to protect the insurance consumer.
Table S.4
Recommendations to Enhance Access to Available Resources and Services for Women Who Screen Positive for Maternal Depression

<table>
<thead>
<tr>
<th>Stakeholder</th>
<th>Recommendation</th>
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| Pennsylvania Department of Public Welfare, Office of Medical Assistance Programs and Office of Mental Health and Substance Abuse Services | The HealthChoices agreement has extensive requirements for written agreements and protocols related to access and coordination among physical and behavioral health MCOs and providers (see Text Box 2.1 in Chapter Two). These requirements are intended to maximize outreach efforts to members identified as needing services and to facilitate referrals and continuity of care as needed. The Department of Public Welfare regularly reviews these agreements and protocols. However, significant challenges remain with regard to ensuring successful outreach to members with maternal depression and their subsequent access to needed services. In this context, we recommend the following:  
A. Review and revise the current requirements in order to ensure their appropriateness for meeting the outreach and access needs of pregnant and postpartum members who screen positive for maternal depression.  
B. More explicitly delineate the roles and responsibilities of MCOs and network providers for implementing the revised requirements.  
C. Strengthen the current review process by establishing performance measures to properly assess the extent to which contractual requirements lead to (1) successful outreach to pregnant and postpartum members who screen positive for maternal depression and (2) improved service access as needed by these members.  
D. Develop, implement, and evaluate various strategies to support MCOs in meeting the contractual requirements. |
| HealthChoices physical and behavioral health MCOs                           | A. Establish explicit collaborative procedures involving MCO care management staff and network providers for making, receiving, and handling referrals of pregnant and postpartum members who screen positive for maternal depression. These procedures should include (1) an appropriately safeguarded electronic means for sharing necessary patient information among all relevant parties; (2) effective strategies for connecting with members, assessing their needs and health status, and responding appropriately; and (3) provision of timely feedback to referring providers on patient status and relevant outcomes.  
B. Revise existing perinatal depression measures or create new measures that align with the established referral procedures.  
C. Set explicit targets for increasing referrals of pregnant and postpartum members who screen positive for maternal depression to MCO care managers or behavioral health or other service providers as appropriate, and improving the process through which these referrals are handled.  
D. Establish reporting, monitoring, and feedback systems to assess and improve the referral performance of network providers and MCO care management staff. Incorporate measures of provider, MCO care management, and member satisfaction in the ongoing review process.  
E. Develop, implement, and evaluate various strategies to support network providers and MCO care management staff in meeting and exceeding their performance goals.  
F. Review member incentive and reward programs for opportunities to further encourage pregnant and postpartum women who screen positive for maternal depression to connect with their MCO care managers on a regular basis. |
| HealthChoices physical health MCOs                                           | Revise the ONAF to include the EPDS or other acceptable depression screening score for all pregnant women. |
Table 5.4—Continued

<table>
<thead>
<tr>
<th>Stakeholder</th>
<th>Recommendation</th>
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<tbody>
<tr>
<td>HealthChoices behavioral health MCOs</td>
<td>Evaluate the benefits of placing a behavioral health care manager in large-volume physical health practices. Develop a detailed plan for (1) integrating the individual or function into the practice’s work flow and providing access to relevant information systems; (2) fully utilizing motivational interview techniques and patient-centered principles, with a strong focus on addressing the member’s tangible social support needs (e.g., transportation, childcare); (3) assessing patient and family outcomes for engagement in behavioral health services or appropriate alternatives. To enable physical health providers to become sufficiently familiar with the access requirements and range of services and providers available through the behavioral health network, allow the co-location strategy to achieve its maximum level of implementation (at least one year) before making a final assessment of its value and sustainability (see discussion of co-location pilot results in Chapter Four).</td>
</tr>
<tr>
<td>Physical health practices and providers in the HealthChoices network</td>
<td>Accelerate efforts to refer pregnant and postpartum women who screen positive for maternal depression to physical and behavioral health MCOs, behavioral health providers, or community resources and services (e.g., home-based service programs) as needed and appropriate.</td>
</tr>
</tbody>
</table>

NOTE: ONAF = obstetrical needs assessment form.
Table 5.5
Recommendations to Increase Engagement in Behavioral Health Treatment as Needed and Appropriate

<table>
<thead>
<tr>
<th>Stakeholder</th>
<th>Recommendation</th>
</tr>
</thead>
</table>
| Pennsylvania Department of Public Welfare, Office of Medical Assistance Programs and Office of Mental Health and Substance Abuse Services | The HealthChoices Agreement has extensive requirements for written agreements and protocols related to access and coordination among physical and behavioral health MCOs and providers (see Text Box 2.1 in Chapter Two). These requirements are intended to facilitate members’ access to diagnostic assessment and treatment, prescribing practices, and other treatment issues necessary for optimal health. The Department of Public Welfare regularly reviews these agreements and protocols. However, significant challenges remain with regard to engaging members with maternal depression in behavioral health treatment as needed and appropriate. In this context, we recommend the following:  
A. Review and revise the current requirements in order to ensure their appropriateness for meeting the treatment engagement needs of pregnant and postpartum women who screen positive for maternal depression.  
B. More explicitly delineate the roles and responsibilities of MCOs and network providers for implementing the revised requirements.  
C. Strengthen the current review process by establishing performance measures to properly assess the extent to which the contractual requirements lead to engagement of members with maternal depression in behavioral health treatment.  
D. Develop, implement, and evaluate various strategies to support MCOs in meeting the contractual requirements.  

A. Establish explicit collaborative procedures involving MCO care management staff and network providers for facilitating engagement in behavioral health treatment among pregnant and postpartum members who screen positive for maternal depression. These procedures should include (1) an appropriately safeguarded electronic means for sharing necessary patient information among all relevant parties; (2) effective strategies for connecting with members, assessing their needs and health status, and responding appropriately; and (3) provision of timely feedback to referring providers on patient status and relevant outcomes.  
B. Revise existing perinatal depression measures or create new measures that align with the established engagement procedures.  
C. Set explicit targets for increasing engagement in behavioral health treatment for pregnant and postpartum members who screen positive for maternal depression.  
D. Establish reporting, monitoring, and feedback systems to assess and improve the performance of network providers and MCO care management staff specific to engaging members who screen positive for maternal depression in behavioral health care. Incorporate measures of provider, MCO care management, and member satisfaction in the ongoing review process.  
E. Develop, implement, and evaluate various strategies to support network providers and MCO care management staff in meeting and exceeding their performance goals.  
F. Review member incentive and reward programs for opportunities to further encourage pregnant and postpartum women who screen positive for maternal depression to engage in behavioral health treatment as needed and appropriate.  
G. In cases in which pregnant or postpartum women who screen positive for maternal depression will not accept a referral for outpatient mental health treatment, utilize and assess the cost-effectiveness of engaging them in home-based service programs or other nonmedical community programs.  

| HealthChoices physical and behavioral health MCOs                              | A. Establish explicit collaborative procedures involving MCO care management staff and network providers for facilitating engagement in behavioral health treatment among pregnant and postpartum members who screen positive for maternal depression. These procedures should include (1) an appropriately safeguarded electronic means for sharing necessary patient information among all relevant parties; (2) effective strategies for connecting with members, assessing their needs and health status, and responding appropriately; and (3) provision of timely feedback to referring providers on patient status and relevant outcomes.  
B. Revise existing perinatal depression measures or create new measures that align with the established engagement procedures.  
C. Set explicit targets for increasing engagement in behavioral health treatment for pregnant and postpartum members who screen positive for maternal depression.  
D. Establish reporting, monitoring, and feedback systems to assess and improve the performance of network providers and MCO care management staff specific to engaging members who screen positive for maternal depression in behavioral health care. Incorporate measures of provider, MCO care management, and member satisfaction in the ongoing review process.  
E. Develop, implement, and evaluate various strategies to support network providers and MCO care management staff in meeting and exceeding their performance goals.  
F. Review member incentive and reward programs for opportunities to further encourage pregnant and postpartum women who screen positive for maternal depression to engage in behavioral health treatment as needed and appropriate.  
G. In cases in which pregnant or postpartum women who screen positive for maternal depression will not accept a referral for outpatient mental health treatment, utilize and assess the cost-effectiveness of engaging them in home-based service programs or other nonmedical community programs.  |
The combined negative impact of the attributions of illness, difficult life circumstances (e.g., poverty), demands of infant caretaking, and unfavorable perceptions or past experiences with the behavioral health system too often impedes access to treatment for women with maternal depression. Overcoming these barriers would lead to maternal recovery and healthy early child development. In this context, it is critical to ensure adequate, sufficiently skilled psychiatric capacity to meet HealthChoices’ access standards and the treatment needs of pregnant and postpartum members with depression. Strategies to consider include the following:

A. As rates of maternal depression screening increase, retest the utility and cost-effectiveness of a statewide telephone consultation service operated by psychiatrists to support providers (e.g., family medicine and other primary care practitioners) on issues related to diagnoses, treatment options, medications, or alternative therapies for pregnant and postpartum members who screen positive for maternal depression.

B. Test the effectiveness and long-term viability of telephone or in-home mobile psychotherapy for pregnant and postpartum members who screen positive for maternal depression, as well as more innovative approaches, such as offering web-based cognitive behavioral therapy in multiple, family-friendly settings.

C. Evaluate the benefits of placing a behavioral health specialist in large-volume physical health practices. Develop a detailed plan for (1) integrating the individual or function into the practice’s clinical workflow and providing access to relevant information systems; (2) fully utilizing motivational interview techniques and patient-centered principles; and (3) assessing patient and family health outcomes and satisfaction. Allow the co-location strategy to achieve its maximum level of implementation (at least one year) before making a final assessment of its value and sustainability (see discussion of co-location pilot results in Chapter Four).

D. Develop mechanisms for obtaining input from pregnant and postpartum members who screen positive for maternal depression on alternative service options that meet their needs and preferences.

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<td>The combined negative impact of the attributions of illness, difficult life circumstances (e.g., poverty), demands of infant caretaking, and unfavorable perceptions or past experiences with the behavioral health system too often impedes access to treatment for women with maternal depression. Overcoming these barriers would lead to maternal recovery and healthy early child development. In this context, it is critical to ensure adequate, sufficiently skilled psychiatric capacity to meet HealthChoices’ access standards and the treatment needs of pregnant and postpartum members with depression. Strategies to consider include the following: A. As rates of maternal depression screening increase, retest the utility and cost-effectiveness of a statewide telephone consultation service operated by psychiatrists to support providers (e.g., family medicine and other primary care practitioners) on issues related to diagnoses, treatment options, medications, or alternative therapies for pregnant and postpartum members who screen positive for maternal depression. B. Test the effectiveness and long-term viability of telephone or in-home mobile psychotherapy for pregnant and postpartum members who screen positive for maternal depression, as well as more innovative approaches, such as offering web-based cognitive behavioral therapy in multiple, family-friendly settings. C. Evaluate the benefits of placing a behavioral health specialist in large-volume physical health practices. Develop a detailed plan for (1) integrating the individual or function into the practice’s clinical workflow and providing access to relevant information systems; (2) fully utilizing motivational interview techniques and patient-centered principles; and (3) assessing patient and family health outcomes and satisfaction. Allow the co-location strategy to achieve its maximum level of implementation (at least one year) before making a final assessment of its value and sustainability (see discussion of co-location pilot results in Chapter Four). D. Develop mechanisms for obtaining input from pregnant and postpartum members who screen positive for maternal depression on alternative service options that meet their needs and preferences.</td>
</tr>
<tr>
<td>Behavioral health practices and providers in the HealthChoices network</td>
<td>Explore opportunities to co-locate behavioral health specialists at nearby physical health practices that currently do not have in-house behavioral health capacity. Develop a detailed plan for (1) integrating the individual or function into the practice’s clinical workflow and providing access to relevant information systems; (2) fully utilizing motivational interview techniques and patient-centered principles; and (3) assessing patient and family health and satisfaction. Allow the co-location strategy to achieve its maximum level of implementation (at least one year) before making a final assessment of its value and sustainability (see discussion of co-location pilot results in Chapter Four).</td>
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Table 5.6
Recommendations to Improve Overall Systems Performance in Relation to Maternal Depression Screening, Referral, and Engagement in Treatment

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<th>Stakeholder</th>
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<td>Pennsylvania Department of Public Welfare, Office of Mental Health and Substance Abuse Services</td>
<td>Effective screening, referral, and treatment engagement enhances the quality of life and functioning of women with maternal depression and reduces a risk factor that can negatively affect a young child's development. These outcomes support the department’s goals of enhancing the development of young children and increasing opportunities for persons dependent on Medicaid to obtain employment. In this context, it is critical to establish maternal depression as a priority in the public mental health system.</td>
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| Pennsylvania Department of Public Welfare, Office of Medical Assistance Programs and Office of Mental Health and Substance Abuse Services | A. Accelerate collaborative interdepartmental efforts to encourage the development and proliferation of interoperable electronic health records for improving data sharing and integration and coordination of care throughout the commonwealth.  
B. Enlist MCOs in a coordinated effort to develop common standards, metrics, and incentives for enhancing network providers’ use of health information technology options that support integrated care.  
C. Charge the physical and behavioral health care coordination groups within each HealthChoices zone to develop collaborative strategies for (1) increasing rates of maternal depression screening and (2) improving referral and treatment engagement rates of pregnant and postpartum members who screen positive for maternal depression. |
| HealthChoices physical and behavioral health MCOs                           | A. Work together with providers, consumers, and families to develop information-sharing agreements as needed for ensuring full knowledge of issues that affect a woman's physical and behavioral health or the health of the mother and the child. Specific efforts should be made to develop a standard release-of-information form for use by MCOs and network providers serving similar patient populations.  
B. Create regular opportunities (e.g., in-person workgroups, teleconferences, webinars) for care managers and physical and behavioral health providers to review shared cases of success and failure related to serving pregnant and postpartum women who screen positive for maternal depression. |
| Physical and behavioral health practices and providers in the HealthChoices network | A. Identify appropriate health information technology options that support integrated care and funding opportunities or reduced cost programs for developing them.  
B. Continue to track progress on screening, referral, and engagement in treatment for women at high risk for maternal depression and develop and implement internal quality-improvement programs as needed.  
C. Advance efforts to network with other area providers who are treating pregnant and postpartum women who screen positive for maternal depression to share resources, experiences, and learning. |
Next Steps for the Collaborative

The collaborative has recently embarked on an expansion of the Allegheny County Maternal Depression Initiative, which serves as one concrete next step toward systems integration and holistic interventions for parents and children. The collaborative’s new initiative—Helping Families Raise Healthy Children—advances the work of the collaborative in three ways. First, it builds important linkages with an additional sector that provides services to families with children ages 0 to 3 in Allegheny County—namely, the early-intervention system. Second, it expands maternal depression screening to all primary caregivers with young children who enter the early-intervention system because of developmental concerns related to medical or environmental risks (e.g., very low birth weight, elevated blood lead levels). Third, it seeks to address primary-caregiver depression and the related challenges of healthy early childhood development through home-based, family-centered interventions designed to strengthen parenting and the parent-child relationship.

The Allegheny County Maternal and Child Health Care Collaborative has made a long-term commitment to building a model system of care for parents and young children in the community. While we at the collaborative have made significant progress during the past eight years, there is still much work to be done. We hope that this report will inspire others to mobilize forces in their communities and beyond to strengthen the systems responsible for ensuring the health and well-being of all families across the commonwealth.

Depression is real after childbirth—for both mothers and fathers. It is the people who touch the lives of new parents that can make a difference in a family’s life. It is the people that we trust that can make us feel safe enough to talk about the unhappy feelings that sometimes occur after a new baby comes into our life. . . . This project can make a difference . . . for the health of our future—our families.

—mother, Allegheny County, Pennsylvania