

Integrating Behavioral Health into Primary Care

Public Meeting

April 2, 2015

Agenda

- Public Meeting Convened, Topic Overview | 10:00 am
- Presentation of the Evidence and Economic Modeling, Q&A | 10:20 11:20 am
- Public Comments | 11:20 11:50 am
- Lunch | 11:50 12:20 pm
- CTAF Q&A with Experts / Deliberation and Votes | 12:20 1:20 pm
- **Break** | 1:20 1:35 pm
- Barriers and Potential Solutions, Policy Roundtable Discussion, Best Practice/Policy Recommendations | 1:35 – 3:35 pm
- Reflections from CTAF Panel | 3:35 3:55 pm
- Summary and Closing Remarks | 3:55 4:00 pm
- Meeting Adjourned | 4:00 pm
 - Download meeting materials: http://tinyurl.com/CTAFBHI

CTAF Overview

- Core program of the Institute for Clinical and Economic Review (ICER), an independent non-profit research organization that evaluates scientific evidence on the clinical effectiveness and cost implications of medical interventions
- Goal: Help patients, clinicians, insurers, and policymakers apply evidence to improve the quality and value of health care
- Deliberation and voting by CTAF Panel independent clinicians, methodologists, and leaders in patient engagement and advocacy
- Supported by grants from the Blue Shield of California Foundation and the California HealthCare Foundation



Topic Overview

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April 2, 2015

I have no conflicts of interest.

How Terms Are Used in this Report

- Behavioral health integration (BHI) into primary care addresses both physical health and behavioral health needs in primary care settings through systematic coordination and collaboration among health care providers
 - Behavioral health broadly defined by AHRQ; this report focused on a subset of behavioral health conditions
- Evidence on clinical effectiveness and cost impact generally limited to mental health conditions, but field evolving to include substance use disorder and other conditions
 - Clinical effectiveness review focused on conditions common in primary care (anxiety and depression)

Context

- High prevalence of behavioral health conditions in population, especially among patients with chronic physical health conditions
- Long history of separate treatment and financing of physical and behavioral health conditions
- Many efforts to integrate behavioral health and primary care over past 20+ years
- Field is evolving supported by variety of public agencies and private foundations/organizations

Review Components

- Evaluate evidence on comparative clinical effectiveness and value of BHI
- Identify components potentially associated with successful integration
- Assess budget impact of BHI
- Assess barriers to integration and potential innovations/solutions for BHI in California

Environments: National and CA

- Fragmented care in part due to physical and behavioral health services regulated and financed through multiple government agencies
- In CA...
 - Two "realignment" efforts have shifted responsibility for mental health to counties
 - Individuals without private insurance who have disabling mental health conditions typically receive care through county systems (either provided by county directly or via contracts to FQHCs/other providers)
 - Recent consolidation of mental health and alcohol/drug agencies into DHCS

Medicaid Billing Requirements

- Each state Medicaid program has unique billing rules re: behavioral health services
- In CA, Medi-Cal...
 - Limits the types of providers who can bill for specific procedures and diagnoses (physicians, PAs, NPs, clinical psychologists, LCSWs)
 - Does not reimburse for care coordination services
 - Does not reimburse FQHCs for both physical and behavioral services provided on same day

Information Sharing

- HIPAA restrictions on disclosure and use of patient information
- For behavioral health...
 - More stringent criteria for substance use disorder treatment re: sharing data
 - Slower adoption of EHRs by behavioral health providers than by physical health treatment providers
- In CA, laws require clinicians, health plans, and contractors to obtain written permission from patient before behavioral health information can be shared

Purchasing Arrangements/Coverage

- "Carve outs" common public and private health plans delegate responsibility for behavioral health to MBHOs
 - Often misaligned payment incentives between physical health and behavioral health
 - Provider networks may exclude primary care practices
 - Information exchange is often limited
- In CA as of January 2014, Medi-Cal managed care mental health benefits...
 - Patients with low-to-moderate functional impairment are covered through health plan (not covered previously)
 - Patients with serious functional impairment continue to be served through county mental health plans

Payment and Care Delivery Initiatives

- Accountable care organizations (ACOs)
- Patient-centered medical homes (PCMHs)
- ACA provisions:
 - Section 2703 waivers: health homes
 - Medicaid expansion
 - FQHC expansion
- Telemedicine



Evidence Review

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April 2, 2015

I have no conflicts of interest.

Methods

- More than 25 systematic reviews
 - AHRQ 2008
 - Cochrane collaboration 2006, 2012, 2015
- Updated search using Cochrane search criteria
 - Additional publications from same trials
- Quality: ICER adapted from AHRQ
 - Note: blinding of participants not possible

Study selection

- Males and females, any age
- ≥ 50% with anxiety or depression
- Include studies of patients with chronic medical conditions
 - Diabetes, hypertension, heart disease, asthma, COPD

Results – Study Description

- 94 randomized trials
 - > 25,000 patients
- 85% in primary care (78/94)
- 73% in the United States
- 100% based on the Collaborative Care Model*
 - No trials of co-location in primary care
 - No studies of integrated, collaborative treatment plan

^{*} Collaborative Care Model (CCM) is an approach that integrates treatment for mood and anxiety disorders into primary care settings and has these components: 1) care coordination and care management, 2) regular/proactive monitoring and treatment to target using validated clinical rating scales, and 3) regular supervision of case manager by a mental health professional.

Results

System

Integrated HMO 30%

• VA 18%

Non-integrated 47%

Multiple 5%

Integrated care

Medication management only 38%

Psychological therapy only12%

• Both 50%

Outcomes: Depression and Anxiety

- Change in score
 - Continuous measure
- Response to therapy
 - ≥ 50% reduction in score
- Remission
 - Reduction in score below threshold
- Adherence to medical therapy

Meta-analysis Outcome

- Standardized mean difference (SMD)
 - Combines continuous outcomes
 - Average change / standard deviation
 - ~ 0.2 is small, 0.5 moderate, 0.8 large

Depression Example

- IMPACT trial: www.impact-uw.org/about/
 - Largest: 18 clinics, 1,801 depressed patients
 - California, Indiana, North Carolina, Texas, Washington
 - HMO, FFS, IPA, VA & inner city public health clinics
 - Systematic screening + PCP identified
 - Care manager: education, care management, medication management, brief psychotherapy

IMPACT Trial Outcomes at 1 Year

	Integrated	Usual Care	Р
Score (SCL-20)	1.7 to 1.0	1.7 to 1.4	<0.001
Response (≥50%)	45%	19%	<0.001
Remission	25%	8%	<0.001
Antidepressant use	73%	57%	<0.001
Satisfaction with depression care	76%	47%	<0.001

Depression Summary

- Integrated care improves outcomes (79 studies)
 - SMD 0.28, 95% CI 0.23-0.33
 - Median absolute increase in response: 18.4%
 - Median absolute increase in remission: 16.7%
- High certainty of small net benefit
 - P<0.001, consistent, meta-analysis significant in 2000
 - The effect size is small to moderate

Anxiety Example

- CALM study (modeled on IMPACT study)
 - 17 clinics, 1,004 patients
 - PCPs identified patients
 - Non-expert care managers: education, care management, medication management, brief psychotherapy

CALM Trial Outcomes at 1 Year

	Integrated	Usual Care	Р
Score (BSI-12)	16.2 to 8.1	16.3 to 10.8	<0.001
Response (≥50%)	64%	45%	<0.001
Remission	51%	33%	<0.001
Appropriate counseling	49%	27%	<0.001
Satisfaction with anxiety	3.9/5	3.4/5	<0.001
care			

Anxiety Summary

- Integrated care improves outcomes (7 studies)
 - SMD 0.33, 95% CI 0.19-0.47
- Moderate certainty of small net benefit
 - P<0.001, consistent, fewer studies, wider CI
 - The effect size is small to moderate

Other Medical Conditions: Diabetes

- Seven randomized trials
- Depression scores
 - SMD 0.32, 95% CI 0.11 to 0.53
- Hemoglobin A1c decrease
 - 0.33%, 95% CI 0.0% to 0.66%
- Summary: Low certainty of a small net benefit among patients with both depression and diabetes because the A1c benefit is of borderline statistical and clinical significance

Quality of life (QOL)

- Mental health QOL (Vitality, social functioning, anxiety/depression limits accomplishments over 4 weeks, felt peaceful and calm, etc.)
 - SMD 0.20 to 0.26 through 24 months (p<0.001)
 - SMD 0.10 beyond 24 months (NS)
- Physical health QOL (general health, pain, physical health limits activities, accomplishments, work over past 4 weeks)
 - SMD 0.10, 95% CI 0.02 to 0.17 between 13 and 24 months
- Summary: High certainty of a small benefit in mental health QOL. Low certainty of a small benefit in physical health QOL.

Patient Satisfaction

- 30/34 studies reported higher satisfaction with integrated care (22/34 with p<0.05)
- 10 studies used a continuous measure
 - SMD 0.31, 95% CI 0.13 to 0.49, p<0.001
- Summary: High certainty of small to moderately greater satisfaction with integrated care because of the large number of studies, consistent findings, and low p-value, though the SMD was only 0.31.

Summary of the Evidence

- High certainty of improvements in depression, quality of life, and patient satisfaction with collaborative care compared to usual care
- Low to moderate certainty of improvements in anxiety and in diabetes (in those with depression)
- The magnitude of the net benefit was small to moderate for all outcomes
 - Clinically significant for depression and anxiety
- Limited data beyond collaborative care model

Public Comments Received

- The literature represents the Collaborative Care Model (CCM) with very little on other forms of integration
 - CCM effective with or without co-location and systems integration
- The benefits of the CCM are large
- The literature on the Patient Centered Medical Home not included



Care Value and Health-System Value Analysis

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I have no conflicts of interest.

Economic Analysis Components

- Care Value: summarized existing literature on costs and cost-effectiveness of BHI
 - Variability in settings, implementation, and intensity precluded development of generalizable BHI model
- Health-System Value:
 - Identified publicly-available resources for estimating planning, implementation, and ongoing costs of BHI
 - Estimated budgetary impact of implementing BHI in an accountable care organization (ACO)

Results: Costs and Cost-Effectiveness of BHI

- Evaluated 18 RCT-based economic evaluations, nearly all based on CCM approaches
- BHI consistently more effective than usual care, but also more costly over 6 months – 2 years
 - When observed, offsets primarily in specialty mental health services and in inpatient/emergency department care for specific subpopulations (e.g., patients with diabetes)
 - Longer-term studies have demonstrated the potential for costneutrality or even overall cost savings, but limited in number/quality
- Estimates of cost-effectiveness have met generallyaccepted thresholds for cost-effective interventions in the US (\$15,000 - \$80,000 per QALY gained vs. usual care, 2014 dollars)

Results: Costs and Cost-Effectiveness of BHI (2)

Author, Year	Sample Size	Incremental Costs of Integrated Care (2014 \$/Patient)	Cost per QALY Gained (2014 \$)
Lave, 1998 ¹³⁶	276		
+Medication		\$1,328 – \$1,494	\$16,292 - \$30,802
+Psychotherapy		\$1,521 - \$1,960	\$27,644 - \$61,144
Simon, 2001 (a) ¹³⁷	407	\$1,603 - \$3,935	\$35,200 - \$79,200
Simon, 2001 (b) ¹³⁸	228	\$568 - \$929	\$31,302 - \$62,605
Schoenbaum, 2001 ¹³⁹	1,356		
+Medication		\$666	\$24,530 - \$58,347
+Psychotherapy		\$771	\$15,165 - \$34,365
Simon, 2002 ¹⁴⁰	386	\$20 - \$412	\$32,475 - \$65,700

Source: Neumeyer-Gromen A, et al. Disease management programs for depression: a systematic review and meta-analysis of randomized controlled trials. Medical Care, 2004:42(12)1211-1221.

Results: Costs and Cost-Effectiveness of BHI (3)

- Observational studies have shown potential for cost savings with BHI over 2-5 years, but studies have quality concerns (e.g., site/provider selection bias, imbalanced intervention and control groups)
- Across all study designs, costs of BHI may be understated
 - Most studies estimated costs of delivering intervention to diagnosed patients but did not include costs of planning and implementation
 - Some studies did not include costs of screening

Cost Categories: Estimating Budget Impact of BHI

Planning Costs

- Current patient flow
- Current staff salaries, FTEs, fringe percentages, etc.
- Amount of time spent on BHI planning for each staff type
- Current direct expenditures, indirect expenses, and overhead

Start-Up Costs

- Staff training
- Administration
- Fixed costs (e.g., equipment purchases)
- Overhead

"Steady State" Costs

- Percent of staff time devoted to intervention and incremental costs associated with treatment
- Overhead expenses attributable to BHI
- New capital expenses and depreciation of existing assets

Sources: Prescription for Health (P4H), Advancing Care Together (ACT), SAMHSA, Advancing Integrated Mental Health Solutions (AIMS), Dodoo MS, Krist AH, Cifuentes M, Green LA. Start-up and incremental practice expenses for behavior changes interventions in primary care. Am J Prev Med. 2008; 35(5S): S423-S430.

Budget Impact Analysis: Assumptions

- Large CA ACO (200,000 lives)
- Primarily employed, privately-insured population (3% prevalence of major depression)
- 4 months start-up, remainder of year is implementation/ongoing intervention
- New hires of 40 RN care managers and 10 psychiatrist consultants
- Change in job role for medical assistants to conduct depression screening; no additional hires
- Only small modifications of EHR system required, no other major IT expenses
- Additional capital expenditures assumed for workspace for new hires
- All patients in panel assumed to have one screening encounter during year

BHI: Start-up and Ongoing Expense Estimates, 200K member ACO

Type of Expense	Total Cost (\$)	Total Cost (\$PMPM)
Start-Up Expenses (4 months)		
General startup	\$23,268	\$0.01
Additional training	\$16,365	\$0.01
Total Start-Up Expenses	\$39,633	\$0.02
"Steady State" Expenses (8 months)		
Screening	\$313,524	\$0.13
Direct Staff	\$3,730,560	\$1.55
Overhead	\$2,736,000	\$1.14
Total Ongoing Expenses	\$6,780,084	\$2.83
TOTAL FIRST VEAR EVEENING	*	A a a a
TOTAL FIRST-YEAR EXPENSES	\$6,819,717	\$2.84

Budget Impact Analysis Summary

- Start-up and screening costs relatively modest
- Direct staff and overhead costs major drivers of increased PMPM
- Incremental estimated PMPM expense of BHI in first year of implementation: \$2.84
 - Likely on higher end of investment given assumed new hires and creation of co-located workspace

Budget Impact Analysis Summary

Measure	ACO Perspective	Medi-Cal Perspective
Base PMPM	\$26*	\$552**
% increase from BHI implementation (\$2.84)	10.9%	0.5%
if 5% offset in total health care costs assumed (\$1.84) [‡]	7.1%	0.3%

^{*}Taylor EF, Dale S, Peikes D, et al. Evaluation of the Comprehensive Primary Care Initiative: First annual report. Mathematica Policy Research. 2015.

^{**}Kaiser State Health Facts. Medicaid spending per full-benefit enrollee, California, 2011 (updated to 2014 dollars using medical CPI).

[‡]Based on assumed annual total health care costs of \$8,000 per patient with depression

Economic Analysis Summary

Care Value:

- Incremental clinical benefit over usual care but at increased cost
- BHI interventions fall within generally-acceptable thresholds for cost-effectiveness (\$15-80K per QALY gained vs. usual care)

Health System Value:

- Economic studies have shown that BHI interventions increase costs, at least in the short term
- Evidence on longer-term cost offsets limited to specific subpopulations and/or subject to methodologic concerns
- Start-up and ongoing costs of BHI, while variable, likely to represent substantial increase in primary care PMPM but more modest change from a payer perspective

Public Comments Received: Model

 Better to target model to populations more severely incapacitated by behavioral health issues – more likely to show cost offsets in these populations

Public Comments

Lunch 11:50 - 12:20



Integrating Behavioral Health into Primary Care

Questions for Deliberation

April 2, 2015

Comparative *Clinical Effectiveness* **Example Question**

Is the evidence "adequate" to demonstrate that "intervention A" is superior to "comparator B" for patients with "condition X"?

- 1. Yes
- 2. **No**

Care Value Example Question

From the perspective of a Medicaid program, what is the care value of "intervention A" vs "comparator B"?

- A. Low
- B. Reasonable
- c. High

Comparative Clinical Effectiveness Incremental Cost per Outcomes Achieved

Additional Benefits

Contextual Considerations

Care Value

Health System Value Example Question

Assuming baseline pricing and payment mechanisms, what would be the **health system value** of "**intervention A**" for a state Medicaid program?

- A. Low
- B. Reasonable
- c. High

Care Value

Managing Affordability

Health System Value

Practice Question

Which is your favorite baseball stadium (and no, you don't actually have to watch the game)?

- 1. AT&T Park: San Francisco Giants
- 2. Coors Field: Colorado Rockies
- 3. Fenway Park: Boston Red Sox
- 4. Petco Park: San Diego Padres
- 5. Safeco Field, Seattle Mariners
- 6. Yankee Stadium: New York Yankees

CCM vs. Usual Care: Outcomes

Q1a. Is the evidence adequate to demonstrate that interventions to integrate behavioral health into primary care using the Collaborative Care Model (CCM) have better outcomes than usual care in terms of improvement in anxiety and/or depression?

- 1. Yes
- 2. **No**

CCM vs. Usual Care: Outcomes

Q1b. Is the evidence adequate to demonstrate that interventions to integrate behavioral health into primary care using the *CCM* have better outcomes than usual care in terms of *physical health outcomes in patients with diabetes?*

- 1. Yes
- 2. No

CCM vs. Usual Care: Outcomes

Q1c. Is the evidence adequate to demonstrate that interventions to integrate behavioral health into primary care using the CCM have better outcomes than usual care in terms of physical health outcomes in patients with other medical conditions?

- 1. Yes
- 2. **No**

Other BHI vs. Usual Care: Outcomes

Q2a. Is the evidence adequate to demonstrate that interventions to integrate behavioral health into primary care other than the CCM have better outcomes than usual care in terms of improvement in anxiety and/or depression?

- 1. Yes
- 2. No

Other BHI vs. Usual Care: Outcomes

Q2b. Is the evidence adequate to demonstrate that interventions to integrate behavioral health into primary care other than the CCM have better outcomes than usual care in terms of physical health outcomes in patients with diabetes?

- 1. Yes
- 2. No

Other BHI vs. Usual Care: Outcomes

Q2c. Is the evidence adequate to demonstrate that interventions to integrate behavioral health into primary care other than the CCM have better outcomes than usual care in terms of physical health outcomes in patients with other medical conditions?

- 1. Yes
- 2. No

CCM vs. Usual Care: Patient Satisfaction

- Q3. Is the evidence adequate to demonstrate that interventions to integrate behavioral health into primary care using the *CCM* improve *patient* satisfaction vs. usual care?
 - 1. Yes
 - 2. **No**

Other BHI vs. Usual Care: Patient Satisfaction

- Q4. Is the evidence adequate to demonstrate that interventions to integrate behavioral health into primary care other than the CCM improve patient satisfaction vs. usual care?
 - 1. Yes
 - 2. **No**

CCM vs. Usual Care: Care Value

Q5. Given the available evidence, what is the *care value* of the *CCM* vs. usual care?

- A. Low
- B. Reasonable
- c. High

Comparative Clinical Effectiveness Incremental Cost per Outcomes
Achieved

Additional Benefits

Contextual Considerations

Care Value

CCM vs. Usual Care: Health System Value

Q6. Given the available evidence, what is the overall health system value of the CCM?

- A. Low
- B. Reasonable
- c. High

Care Value

Managing Affordability

Health System Value

Other BHI vs. Usual Care: Care Value

- Q7. Given the available evidence, what is the *care value* of integration interventions *other than the CCM* vs. usual care?
 - A. Low
 - B. Reasonable
 - c. High

Comparative Clinical Effectiveness Incremental Cost per Outcomes
Achieved

Additional Benefits

Contextual Considerations

Care Value

Other BHI vs. Usual Care: Health System Value

- Q8. Given the available evidence, what is the overall health system value of integration interventions other than the CCM?
 - A. Low
 - **B.** Reasonable
 - c. High

Care Value

Managing Affordability

Health System Value



Barriers and Potential Solutions

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Barriers

Category	Specific Issues
Reimbursement and payment	Payment rewarding volume rather than outcomesLimitations on billing
Culture and historical influences	 Separate silos for behavioral health and physical health Different norms around training, licensing, and certification Ongoing stigma
Technology/ information sharing	 Limited data sharing via electronic health records (EHRs) More restrictive confidentiality laws for behavioral health Fragmented communication among providers
Provider training and capacity	 Limited training of providers outside their specialty areas Scope of practice concerns Shortage of psychiatrists overall and shortage of other behavioral health providers who are bilingual; geographic disparities in provider supply
Service capacity and delivery	 Limited community resources for patient referrals Service capacity gaps Confusing care pathways and transitions

Solutions: State/county

Mechanism	Strategies
1115 Waiver application	 Technology/information sharing Data system infrastructure and enhancement – use of EHRs Provider training and capacity Cross system training, particularly of MH/PC providers re: substance use Service capacity and delivery Multidisciplinary teaming Comprehensive care coordination services Peer providers Psychiatry and primary care consultation Expansion of SBIRT for substance use Payment Increased use of shared savings/shared risk
Prop 63/MHSA	 Innovation Funds LA county: integrated clinic model – 4 sites deliver mental health, physical health, and substance use services on-site, using a multi-disciplinary team approach Sonoma county: integrated community health model – train an integrated, multi-disciplinary team of peer health educators, physicians, nurses, psychiatrists, behavioral health specialists, and care managers

Other Potential Solutions (1)

Mechanism	Strategies
New reimbursement and payment strategies	 Alternative payment models (e.g., capitation, incentives shared savings and/or shared risk) Enhanced capitation for care management services and collaborative care in integrated settings Pay for phone psychiatry consults to primary care Use P4P to reward clinical improvement and have withholds for inappropriate care Allow for same-day billing of physical and mental health services provided by two separate providers Increase reimbursement of evidence-based practices Increase payment for non-physician providers Reduce restrictions on types of providers who can bill for certain services (e.g., MFTs in Medi-Cal)

Other Potential Solutions (2)

Mechanism	Strategies
Improved screening,	Use standard, validated screening and assessment
referral, and treatment	tools
processes	 Use peer navigators to engage and help patients
	 Proactively complete consent and releases of
	information to facilitate care management and
	coordination
Increase and ensure	 Improve care transitions
service adequacy for	Expand telemedicine
patients with complex	 Provide team-based care with shared care plans
conditions	Strengthen provider networks
Improve consumer	Use peer providers
choice	• Promote culturally competent and relevant services

Policy Roundtable Participants

- Marty Adelman, MA, CPRP, Behavioral Health Program Manager, Council of Community Clinics
- Maribel Cifuentes, RN, Deputy Director, Advancing Care Together, University of Colorado, Denver
- Efrat Eilat, MBA, PhD, Special Advisor for Integrated Systems, CA Department of Health Care Services
- John Fortney, PhD, Associate Director for Research, University of Washington AIMS Center
- Neha Patel, LPC, Manager Community Transformation West Region, Enhanced Personal Health Care Program, Anthem, Inc.
- Susan Plass, retired, patient
- Kathan Vollrath, MD, MPH, Clinical Associate Professor, Medicine
 General Medical Disciplines, Stanford Health Care
- Kenneth Wells, MD, MPH, Center Director, UCLA Neuropsychiatric Institute & Hospital; Senior Scientist, RAND

Reflections from CTAF Panel

Summary and Closing Remarks

Meeting Adjourned