

Grantee Presenters:

SAMHSA-HRSA Genter for Integrated Health Solutions

Alameda County Behavioral Health



Freddie Smith has worked over 30 years in public health clinics and community health centers that provide primary and behavioral health care services to uninsured and underinsured residents. His administrative work experiences have covered such areas as personnel, policies and procedures, preparation and monitoring of program budgets, health center operations, and compliance with state and federal government licensing regulations. Currently, he is a Program Manager for Alameda County, Behavioral Health Care Services, in the Office of the Medical Director. He is the Project Director for the Substance Abuse Mental Health Services Administration (SAMHSA), Primary Behavioral Health Care Integration (PBHCI), funded grant "Promoting Access to Health (PATH) Project".

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Faith Elizabeth Fuller, M.B.A., President of Financial, Analytic, and Strategic Services for Nonprofit and Government Agencies (FAS Services), Berkeley CA, is the Evaluation and Grant Writing consultant to the Alameda County PATH Project (2009 to date). Her clients include community based Substance Abuse Treatment providers and Adult and Family Drug Courts in Oakland, Berkeley, Fairfield, Vallejo, Hayward, and Fremont California. She currently serves on the executive committee of the National Prevention Science Coalition, on the audit committee of Hesperian Health Guides, and is the treasurer of the Scout Fuller Fund for Social Justice.

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Downtown Emergency Services Center (DESC)

Imara West has been a member of the Center for Healthcare Improvement for Addictions, Mental Illness and Medically Vulnerable Populations (CHAMMP) evaluation team since 2008. She also holds the position of Research Scientist in the Department of Psychiatry and Behavioral Sciences at the University of Washington. She currently provides statistical analytic support to Various research projects and evaluations focused on the safety net population, including the evaluation of the Primary and Behavioral Health Care integration grant awarded to Downtown Emergency Service Center (DESC).

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Presentation Overview

- 1. Description of the Project
- 2. Defining the Types of Cost Analysis
- 3. Steps to Conducting a Cost Analysis
- Reports from the Field: Downtown Emergency Service Center and Alameda County Behavioral Health Care Services
- 5. Next Steps/Questions/Discussion

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Overview of the Project

- The cost analysis small group TA was requested by grantees working on sustainability plans
- DESC, Alameda County, Tarzana, Heritage, CHCS participated from July-September, 2013
- Lessons Learned
 - Craft your analysis to fit organizational needs
 - 2. Some analysis is better than no analysis
 - 3. Don't bite off more than you can chew

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Defining Our Terms/Types of Cost Analysis

A **cost estimation/assessment** tells you that the average hospitalization cost of one BH consumer at your integrated clinic is \$500/year.

A **cost-effectiveness analysis** tells you that the \$500/year hospitalization cost at your integrated clinic is less than a control clinic that has lower prevention costs but higher back-end hospitalization costs and poorer consumer physical and behavioral health outcomes.

A **cost-benefit analysis** projects the total costs to the clinic (or a payer) associated with two alternate approaches to providing integrated care.



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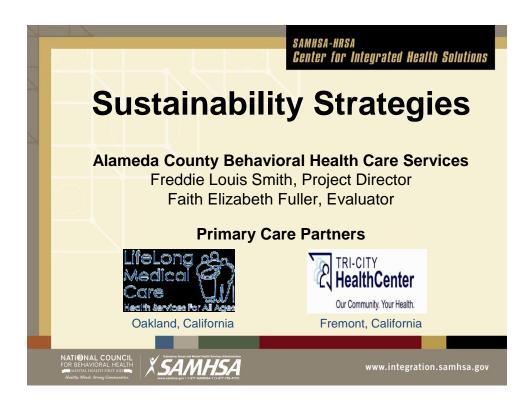
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Cost Analysis Steps:

- 1. Choose the Cost Analysis Team
- 2. Identify the Audience
- 3. Define the Scope
- 4. Structure the Cost Estimate
- 5. Develop a Cost Analysis Design
- 6. Gather Data and Conduct the Data Analysis
- 7. Effectively Present Findings







Goals of PATH Project 1. Improve Access to primary care services for SMI clients 2. Become the "Medical Home" for SMI clients served in County Mental Health Centers 3. Develop a "Sustainable Financial Model" to help expand PATH Clinics to additional Centers

| | Psychiatric Diagnosis Fiscal Year 13-14 SAMHSA-HRSA Center for Integrated Health Solutions | | | | | | | |
|---|---|---|-----------|--------|------------|--|--|--|
| ı | | 2814 Adult Clients (18-65 years old) assigned to Service Teams | | | | | | |
| | | Diagnosis Breakdown | # Clients | Served | Percentage | | | |
| | | Schizophrenia Disorders | 182 | 24 | 65% | | | |
| | | Bipolar Disorders | 37 | 2 | 13% | | | |
| | | Depressive Disorders | 28 | 9 | 10% | | | |
| | | Psychotic Disorders | 24 | 3 | 9% | | | |
| | | Anxiety Disorders | 63 | 3 | 2% | | | |
| | | Adjustment Disorders | 5 | | 1% | | | |
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PATH Sustainability Workgroup Focus

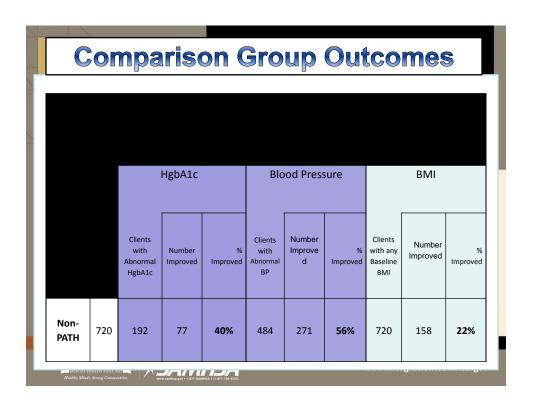
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- 1. Documentation of health outcomes for charts, graphs, presentations, and grant applications and proposals
- 2. Preparing a Financial Plan and Service Model where implementation and operating costs are covered
- 3. Developing strong collaborative Partnerships with our primary care partners
- 4. Building Support from BH Executive Staff, elected officials, and community and consumer groups

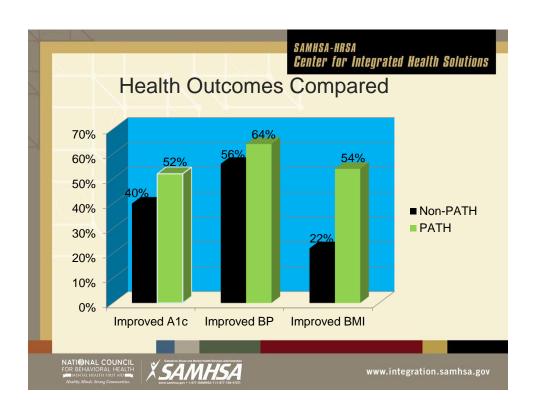




| Improved Access to Primary Care | | | | | | | | |
|---|---|--|--|-----------------------------|--|--|--|--|
| LifeLong Medical Patients Pre- Post Study | Low Users 0-1 visits in the year prior to integration | Moderate Users 2-6 visits in the year prior to integration | Heavy Users 7 – 45 visits in the year prior to integration | Total Patients or Visits | | | | |
| Number in Study Sample | N=24 | N=24 N=23 N=18 | | N=65 | | | | |
| Average # visits 1 Year Prior to Integration | 0.5 | 4.1 | 12.9 | N=340 | | | | |
| Average # Visits 1 Year Post Integration | 5.1 | 4.8 | 6.3 | N=347 | | | | |



| | PATH Outcomes | | | | | | | | | | |
|---|---|---------------|---------------------------------------|--------------------|---------------|-----------------------------------|------------------------|---------------|--|--------------------|---------------|
| N. C. | BHCS Service Team Clients with PATH Integrated Care | | | | | | | | | | |
| | | | HgbA1c | | | Blood Pressure | | | ВМІ | | |
| | | Study Size | Clients with Abnormal HgbA1c | Number Improved | % Improved | Clients with Abnormal BP | Number Improve d | % Improved | Clients with any Baseline BMI | Number Improved | % Improved |
| | PATH | 159 | 93 | 48 | 52% | 126 | 81 | 64% | 159 | 86 | 54% |
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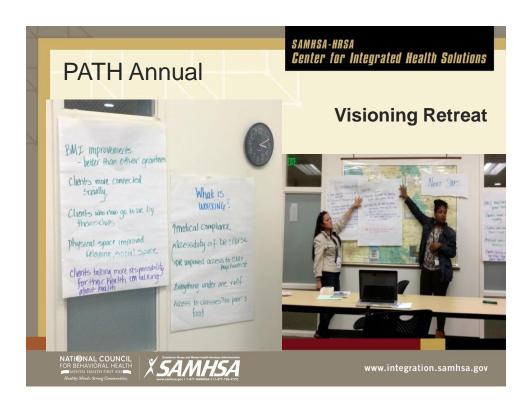
| What are the costs of | а | SAMHSA-HRSA Center for Integrated Health Solutions | | | | |
|-----------------------------------|--------|---|--------|----|---------|--|
| PATH clinic? | | Ongoing Operations | | | | |
| - Title Children | | Primary Care / CBO | FTE | | | |
| Exam Room Set up and Com | puters | Primary Care | 0.4 | | | |
| Equipment | Units | Physician | | | | |
| Office Computers | 3 | Clinic Coordinator | 1.0 | | | |
| Printers/Fax Machines | 2 | Medical Assistant | 0.5 | | | |
| Exam Table | 1 | Admin Asst. | 1.0 | | | |
| Weighing Scale | 1 | Salaries | | \$ | 187,000 | |
| Blood Pressure Monitor | 1 | Medical Supplies | | \$ | 55,000 | |
| Thermometer | 1 | Other costs | | \$ | 28,000 | |
| Pulse Oximeter | 1 | | | \$ | 270,000 | |
| Otoscope | 1 | BH / County | FTE | | | |
| Ophthalmoscope | 1 | Nurse Care Coordinator 1 | | | | |
| Halogen Exam Light | 1 | Peer Support Counselor 1 | | | | |
| Medical refrigerator | 1 | Salaries | | \$ | 220,000 | |
| Hazard Container | 1 | Supplies | | \$ | 18,000 | |
| File Cabinets with locks | 2 | Other costs | | \$ | 20,000 | |
| Cost: \$ 15,000 | | | | \$ | 258,000 | |
| | | | | | | |
| Note: Sinks, Rent, IT Services in | n-kind | Annual Direct | Costs: | \$ | 528,000 | |

| Breakeven Analysis (Primary Care, FQHC) | | | | | | |
|--|-----------|--|--|--|--|--|
| Primary Care Clinic: Annual Operating Expenses | \$270,000 | | | | | |
| Medi-cal reimbursement rate per visit | \$206 | | | | | |
| # Annual visits required for break even (95% insured) | 1376 | | | | | |
| # visits per 4 hour shift (about 30 min. each) | 7 | | | | | |
| Breakeven # of shifts required a year | 197 | | | | | |
| Available weeks per year [net of holidays, vacation, sick] | 49 | | | | | |
| Breakeven # of half-day clinics/week | 4.0 | | | | | |
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| Can we cover costs with revenue? | | ISA-HASA er for Integr | ated Health S | Colutions |
|---|----------------------|---------------------------|------------------|------------|
| Actual | Year 1 | Year 2 | Year 3 | Year 4 |
| Third Party Revenue (Medi-Cal, Medi-Care, Self-Pay) | 0 | \$ 62,219 | \$ 165,918 | \$ 244,849 |
| Foundation Grant | - | - | \$ 15,000 | \$ 15,000 |
| Behavioral Health | Service [·] | Team Rev | venue | |
| Projected | Year 1 | Year 2 | Year 3 | Year 4 |
| MAA (Medi-Cal Administrative Activities) | 0 | \$ 76,000 | \$ 112,000 | \$ 136,000 |
| Mental Health Services Act dollars or other Grants | \$ 258,000 | \$ 182,000 | \$ 146,000 | \$ 122,000 |
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Can we find other ways to cover costs?

Mental Health Services Act Funding (CA)
Foundation Grants
In-Kind goods and services
Collaborative Partnerships with more CBOs
Partnerships with local Colleges and Universities for Research
Interns from local schools
Billing Revenue



Goals for the Future

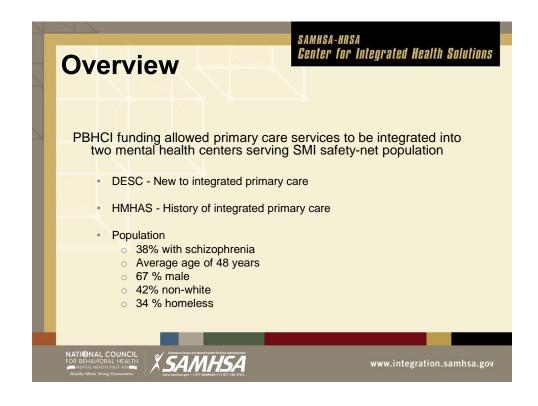
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- Open clinics at additional sites
- Integrate Substance Abuse Treatment
- Continue to collect and analyze data on access, health, and on effects of the wellness program
- Access to data on:
 - Emergency Room visits
 - Hospitalizations (psychiatric and medical)
 - Criminal Justice System Contacts

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Cost Analysis Phases

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Phase I:

- Program Costs
- Pre-Post change comparison of HMHAS PBHCI clients to a propensity score matched comparison group

Phase II:

 Pre-Post change comparison for DESC and HMHAS PBHCI clients





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Cost Analysis Data

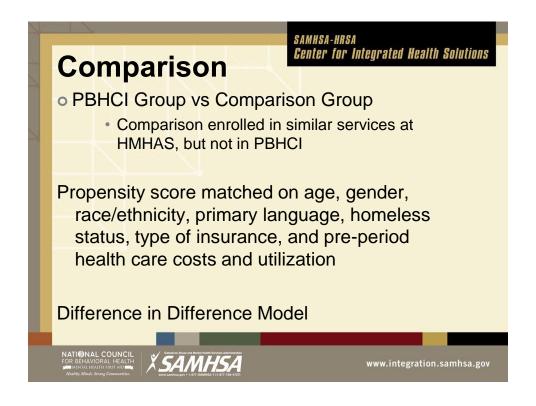
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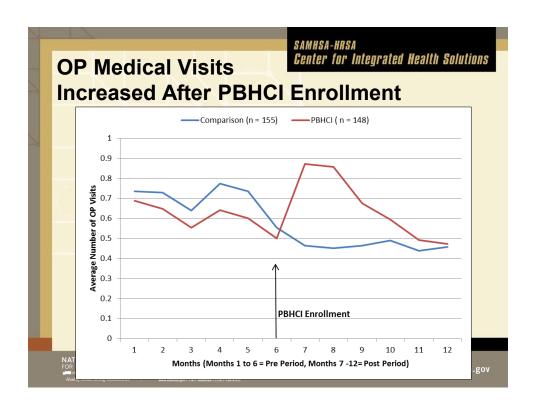
- Harborview Medical Center (HMC) billing records
 - Outpatient (OP) medical utilization and costs
 - Emergency department (ED) utilization and costs
 - Inpatient hospital utilization and costs
- Visits and costs were presented as per member per month (PMPM) in the pre and post periods
 - · One year pre/post period
- Clients must have had at least 1 month of post period data to have been included

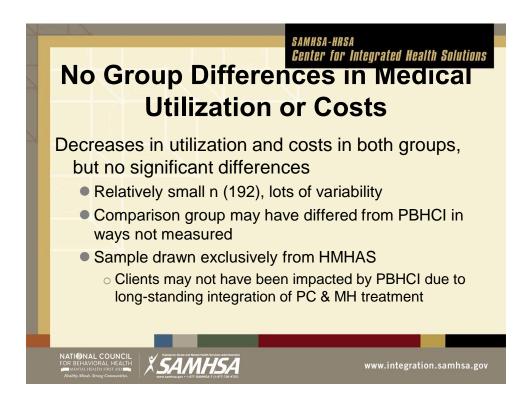
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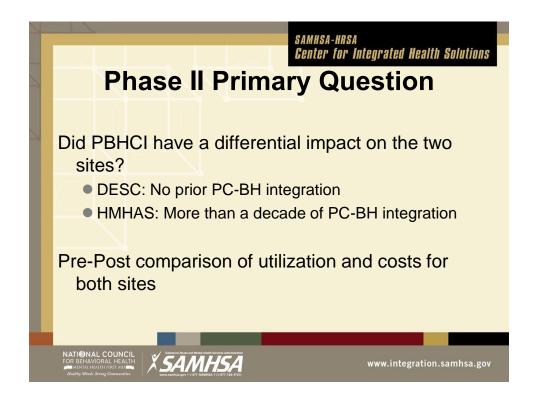


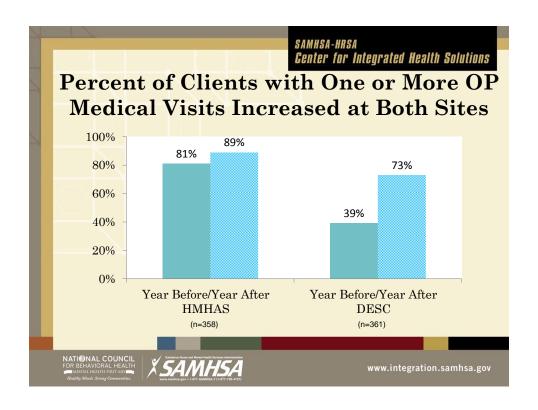


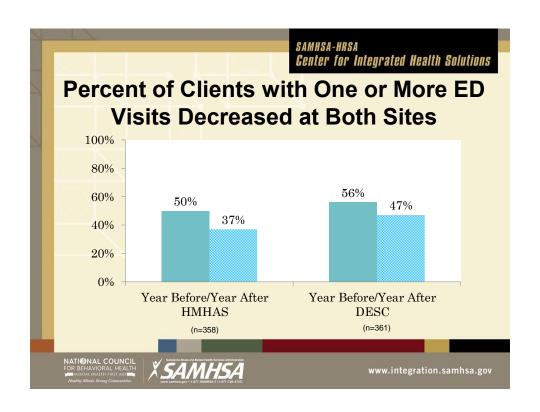


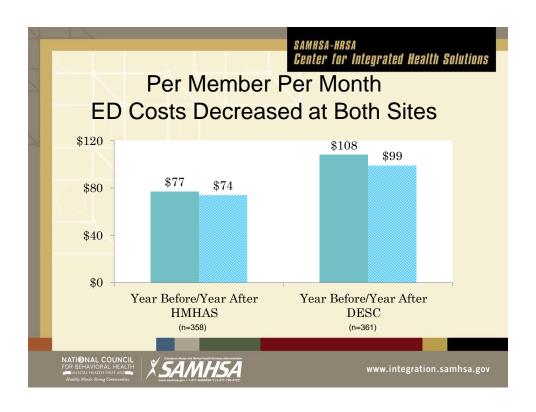


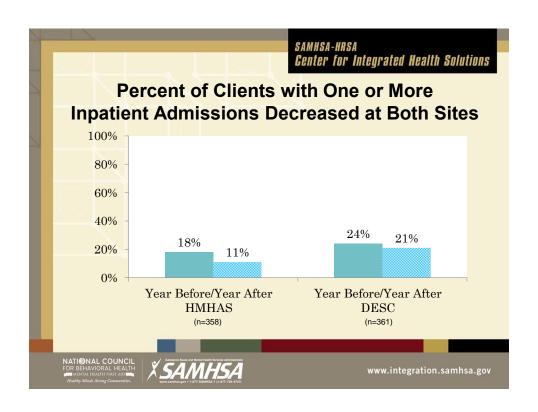












Conclusions

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- PBHCI is associated with an increase in outpatient medical visits
 - Especially at DESC which did not have integration of primary and behavioral health care prior to PBHCI
- PBHCI was also associated with decreases in percent of clients using the ED, ED costs, and percent of clients admitted to inpatient hospital at both sites
- Overall, these findings suggest that the investment in primary care integration can have a positive impact whether the site has a history of integration or not

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Cautions

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- Because we did not have a control group in Phase II, it is possible that changes in medical utilization and costs could have been caused by something other than the PBHCI intervention
- Medical services could have been undercounted as we only had access to service records at HMC clinics while clients could have received services at non-HMC clinics and hospitals





Tips

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- May be difficult to construct a truly comparable comparison group
 - Non-PBHCI participants at a PBHCI site are likely to differ from participants in ways that may be difficult to measure
- State level data may help to identify all medical utilization
- Obtaining medical data can be facilitated by establishing relationship with medical records staff
- Strong programming skills are essential in managing large medical data sets

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HMC Decision Support





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Next Steps...

- Guide is available please let us know what you think!
- Support is available from CIHS, RAND, & the grantees that took part!
- Discussion/Questions?

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