Learning Collaborative Description

• Collaborative LIAs
  • Oklahoma and Tulsa county agencies
  • 2 NFP (Children 1st) programs
  • 4 SafeCare programs
  • 6 PAT programs

• LIAs guided to create own Change Theory Diagrams & SMART Aims and then develop PDSAs using measures defined to address specific goals
  • Outcome measure
    • Weekly Measure
    • Optional longer-term measure- usually tied to SMART Aim
  • Process measure
  • Disruptor Measure

• All LIAs chose Engagement/Intense Early Engagement as their Key Drivers
**Primary Drivers**

1. **Competent and skilled workforce to support enrollment and retention**
2. **Comprehensive data tracking system**
3. **Prompt and appropriate enrollment of eligible families**
4. **Intense early engagement (i.e., during first 3 months)**
5. **Active involvement of families in home visiting program**

**Smart Aim: Family Engagement**

**HV ColIn Changes/Interventions**

1. Initial and ongoing training for HVs on policies and procedures for data tracking and management
2. Process for reviewing and using improvement data (e.g., weekly team meeting)

**External Sources**

1. Outreach and education to referral sources for eligibility of families to home visiting (e.g., access criteria, identifying "goodness of fit")
2. Outreach to home visiting clients to "refer" a friend to home visiting services
3. Streamlined process from referral source to home visiting program (i.e., warm handoff for families)
4. Policy and protocol (with guidelines) for assessing and determining eligibility of families

**Internal Processes**

1. Policy and protocol (with guidelines) for assessing and determining eligibility of families
2. Standardized and welcoming intake process
3. Protocol in place for process steps, from assessment to first home visit
4. Completed family checklists on the family's wants and needs for home visiting

**Lemonade for Life**

1. Introduce Brain Builders and Amazing Brain
2. Fill out ACEs checklist for clients periodically
3. If all boxes are checked on the ACE checklist, introduce ACE questionnaire and appropriate facilitative discussion tools and strategies (referrals, Hope Map, My Lemonade Stand)

**Primary Drivers**

1. Support to develop interpersonal relationships and adult attachment
2. Clear policy and protocols for enrollment and for intense early engagement and retention for current and new home visitors
3. Observation by supervisor of home visits
4. Focused supervision on key points in home visitor (HV)-client relationship (i.e., enrollment, intense early engagement, ongoing retention)
5. Materials available to facilitate engagement with families

**OUHSC/KU Additions**

1. To reduce in-office time, enlist support staff for assembly of packets, new parent educators shadow notation practices
2. Praise and other small rewards (extended leave) for top performances and goal attainers

**Smart Aim: Family Engagement**

1. Climate of performance transparency, track scheduled & completed visits and circulate weekly

**Lemonade for Life**

1. Supervisor monitors, reminds, and directs new referrals for pending graduation slots
2. Parent educators track and provide feedback on lag-time between enrollment and first visit
3. Coach referral sources on program eligibility and brief elevator pitch; plant/embed reminders into sources' daily routine (e.g., C1 eligibility screen appears on patient checklist, short referral form in all clinics, etc.)
4. Flag eligible WIC clients, who are hard to reach, in the system so they can be approached at next WIC visit
5. Plant a reminder into source's daily routine (e.g., client checklist) with your office phone number

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Overview of Common Measures:

3-month Retention

**PAT:** During the 6 months of this PDSA, the value decreased from 62% to 55%. During the same stretch in 2017, it was around 73%.

**C1:** held constant at 64%. Last year was 66%.

**SafeCare:** held constant at 63% this year. Last year was 65%.
Overview of Common Measures:

3-month Retention - C1
"Both jaws, like enormous shears, bit the craft completely in twain."

—Page 510.
Driver 4
Intensive Early Engagement

Lemonade for Life
Using ACEs with families deepens the relationship

- Checklist to determine when is the right time
- Become comfortable with discomfort
Change Theory Diagram
LfL Example

- Introduced ACEs Questionnaire
- Discussed ACEs Score
- Strengthened Working Alliance
- Generated Referrals
- Parent Motivated to Change
- PD4: Early Intense Engagement

Triangles:
- Parent Refused to Answer
- Parent Moved Away
- Parent Declined Referrals
- No New Service Areas Identified
Must Appear Once

Select Topic
Recruit Faculty

Enroll Participants

Prework

Develop Framework and Changes

LS1
AP1

LS2
AP2

LS3
AP3

Summative Congresses and Publications

LS1: Learning Session
AP: Action Period
P-D-S-A: Plan-Do-Study-Act

Supports:
Email • Visits • Phone Conferences • Monthly Team Reports • Assessment
Oklahoma HV Learning Collaborative
Cycle #2 PDSA Summary

Tulsa Children First Program
Brain Builder Video
Children First, Tulsa

- Location – Tulsa County and Lower 1/3 Osage County

- Brief history - Began as Pilot Program in 1997. Launched state wide in 1998 serving 1st time pregnant mothers and their babies. Began using CQI within our own health department agency in 2012. Children First-Tulsa partnered with Ok State Office & OPM in 2012 to provide CQI training statewide. We completed our first Story Board for C-1 in 2013.

- HV Model – Nurse Family Partnership

- Provider Counts – During the project there were: 2 MIECHV Nurses, 12 non-MIECHV Nurses, 2 Supervisors, 1 Program Manager, 2 clerical personnel. Staff separations during the project = 1 MIECHV RN 5/17/18, 1 FT RN 4/30/18

- Completed Home Visits per year 5,380 serving 479 Clients with an average rate of 448 completed home visits per month.
Round 1 Recap – Lessons Learned – Brain Builders Video

• Great way to start conversation about
  • Parenting
  • Discipline
  • ACEs

• Energizes conversation about parenting
  • Incentive to prioritize better parenting techniques
  • “Parents clearly see and comprehend connections between their past and how they are parenting today”
Key Driver Selection-Intense Family Engagement/Intervention-Brain Builder Video 1x during Prenatal Phase Visit 1 – 6.

Why this intervention-Discover if early client attrition is addressable using the Brain Builder video for engagement. Client attrition is the greatest during this early prenatal phase of our program.

Start Date – 2/5/2018 End Date – 6/29/2018

Smart Aim- Providers trained in LFL will decrease current client attrition rate of 34% by 5% by June 29, 2018 by showing the Brain Builder Video to prenatal clients within the first 6 completed prenatal home visits.
Measures

**Outcome:** Attrition

*Instructions:* Attrition is defined as those clients who exited the program within 60 days of their first visit unless they complete the program

*Denominator:* Count of new clients for the week. Only new clients in weeks that are at least 60 days removed from the current report week are included.

*Numerator:* Count of clients who exit the program within 60 days of their first home visit

**Process:** Proportion of pregnancy clients who were shown the Brain Builder video within the first 6 visits

*Denominator:* Count of new clients for the week

*Numerator:* Count of new clients who were shown the Brain Builder video within their first 6 visits

**Disruptor-Early Exit:** Proportion of clients who leave services before they see the Brain Builder Video

*Denominator:* Count of new clients for the week.

*Numerator:* Count of clients who exit the program before seeing the Brain Builder Video

**Disruptor-Language:** Proportion of clients who have seen the Brain Builder by Primary Language

*Denominator:* Count clients speaking English, English & Spanish equally, Spanish and Other language.

*Numerator:* Count of clients speaking the language who have seen the video
Change Theory Diagram

**BB Intro Script**
- Baby born early/fetal loss

**Show BB Video**
- Technical difficulties
- Not available in client’s language

**Increase Parental Motivation**
- Decline to watch video

**PD4 - Early Intense Engagement**
- Client remains engaged
PLAN

• Initial Phase began 2/5/2018 implemented by 6 Nurse Home Visitors trained in L4L. Ramp up began 4/6/2018 with the remaining 8 nurses after receiving L4L training

• Target Population- Prenatal Clients

• What – Provide Script to introduce the Video, then show Brain Builders Video

• Where – During a Home Visit with the client

• When – Prenatal Completed Home Visit 1st – 6th
• Create a Nurse Script to introduce the Brain Builder Video including translation to Spanish by a bi-lingual nurse home visitor on the team
• All Nurses to watch Brain Builder Video and study Brain Builder Video Script to use when introducing prenatal clients to the video
• Download Brain Builder on laptops and mobile device and test for accessibility
• Instruct nurses to show the video between the 1st and 6th prenatal home visit
• Weblet created on clients dashboard in ETO for the BBV encounter documentation as outlined for this project
• Adaptations made along the way
  • Initial project included showing the video during the first home visit. Adapted quickly to visit 1-6 as the 1st visit is geared to data gathering, introducing the program and establishing the relationship. Nurses felt there was not enough time or relationship established at the intake visit.
  • Initially wanted to include Burmese speaking clients, however English & Spanish speaking clients were used for this study due to unavailability of the BBV in other languages and possible cultural considerations. Burmese clients speaking English were included.
• Ramp Up 4/6/2018 included adding the remainder of the 8 nurses trained in L4L to the project. No changes were made in the approach. Reviewed data entry guidelines.
STUDY: SMART Aim Outcome Measure
2-Month Attrition
STUDY: Weekly Outcome Measure
STUDY: Process Measure
STUDY: Disruptor Measure
STUDY: Measures Interpretation

• Outcome
  • We experienced positive changes following implementation. Attrition rate dropped from 0.32 (during 2017 and Jan 2018) to 0.22 (from Feb 2018 thru Jun 2018). This decline in attrition reached statistical significance ($p < 0.01$) and exceeded the identified target goal in the Smart Aim.

• Process
  • Process measure suggested adherence to the planned implementation. Of the 75 prenatal enrollments during this time frame, the BBV was shown to 39 prenatal clients during this time that met the criteria.

• Disruptor
  • No technological issues occurred.
  • No client declined to view the video.
  • Language barriers and possible cultural considerations were a disruptor
  • Some clients who met the study criteria were not shown the video if their home visitor had not yet been trained in L4L
ACT

• Will Adopt intervention – Team identifies BBV promoted discussion with their client about brain development, impact of trauma, further interest in positive parenting and helped parents identify new ways to raise their children successfully.

• C-1 mothers often expressed during the visit a new understanding of trauma and the impact on their own lives, their ability to parent, the impact of toxic stress on a child’s brain development with a new found interest to provide nurturing experiences.

• Several nurses identified using the ACE successfully after showing the BBV to open discussion about their own trauma history. Adding the ACE questionnaire to the process seems a logical step for the next intervention.
Lessons Learned + Caveats

“It isn’t what we don’t know that gives us trouble, it’s what we know that ain’t so.”

Will Rogers
Importance of Measure Clarity and Consensus
STUDY: SMART Aim Outcome Measure
As of 7-15-2018

Notes
1. The dates range from 2015-01-05 to 2018-07-09 (i.e., 184 weeks).
2. The selected program(s) are C1-Tulsa.

Headline Graph
STUDY: SMART Aim Outcome Measure
As of today, using completed visits only, and beyond pregnancy

![Graph showing 2-Month Attrition Rate with data points from different time periods.](image-url)
Importance of Implementation Science

“Active ingredients” and Effect Heterogeneity
Oklahoma County C1: Cycle #2 PDSA
“Best Practices Research”

- Find sites with highest performance
  - Probably different for different steps
- Figure out what they are doing differently
  - Requires in-depth interviews and observation
  - May also require talking to lower performers
  - Identify both principles, techniques, and scripts
- Combine best methods for steps into a unified best method
- Teach/spread the method to others
What Do Exemplars Know?

• Principles
• Techniques
• Scripts
"What fits your busy schedule better, exercising one hour a day or being dead 24 hours a day?"
Scripts

• “Ohh! Dr. Stewart will be so upset with both of us.”
• “Colon cancer is a stupid way to die.”
• “It’s time for your pneumonia shot.”
Tulsa C1 Program
Cycle #3

Two Month Retention

ACE Survey

- FALSE
- TRUE

Percent Retained 2+ Months

Gestational Age for prenatal or Child Age for infants (in Months)
OKC C1 Program
Cycle #3

Two Month Retention

- Percent Retained 2+ Months
- Gestational Age for prenatal or Child Age for infants (in Months)

Video Show
- FALSE
- TRUE
Thank you

Funding information


Please direct feedback and questions to
David-Bard@ouhsc.edu (methods and analysis)
Jcounts@ku.edu (LfL program)