Implementing Adolescent SBIRT in an Urban Federally Qualified Health Center: Generalist vs. Specialist Service Delivery Models

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NIDA grant #1R01DA034258-01 ClinicalTrials.gov #NCT01829308

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Study Design

Multi-site cluster randomized trial

- 7 adolescent primary care clinics in Baltimore City
- Serving 3,600 patients ages 12-17 years

Implementation Strategies for delivery of BI

- Generalist
 - Primary Care Provider (PCP) conducts BI
- Specialist
 - PCP does "warm handoff" to Behavioral Heath Counselor (BHC), who then conducts BI

Generalist vs. Specialist

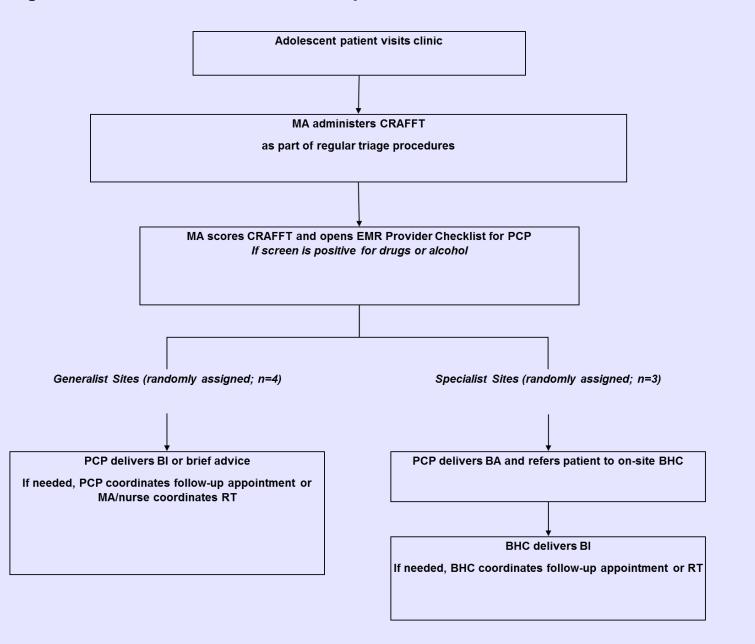
Generalist service delivery approach (n = 4)

- Medical Assistant (MA) screens adolescent patients at all appointments
- Enters info into Electronic Medical Record (EMR) and opens PCP response screen
- PCP conducts BA or BI
 - Schedules follow-up or referral for assessment or treatment, if needed

Specialist service delivery approach (n = 3)

- MA screens adolescent patients at all appointments
- Enters info into EMR and opens PCP response screen
- PCP conducts BA and does "warm handoff" to on-site BHC
- BHC conducts BI
 - Schedules follow-up or referral for assessment or treatment, if needed

Fig. 2. Patient Flow in Generalist vs. Specialist Sites.



SBIRT Training

All clinical staff received training on SBIRT principles and screening process for adolescent alcohol, drug, and tobacco use, and associated HIV sexual risk behaviors
Conducted within each site, based on assignment to Generalist or Specialist Conditions

PCPs and BHCs received additional BI training based on motivational interviewing

Supportive Elements

 Bi-monthly feedback on screening rates, intervention processes and model adherence
Email feedback through clinic managers
Hard copy feedback delivered to providers

Quarterly booster trainings
In-person 30 minute refresher trainings
Walk-through numbers and trouble-shoot process

Implementation Phase April 2013 – December 2014

Service Outcomes: Screening, BA and BI Penetration

No significant differences between Generalist and Specialist conditions in penetration of

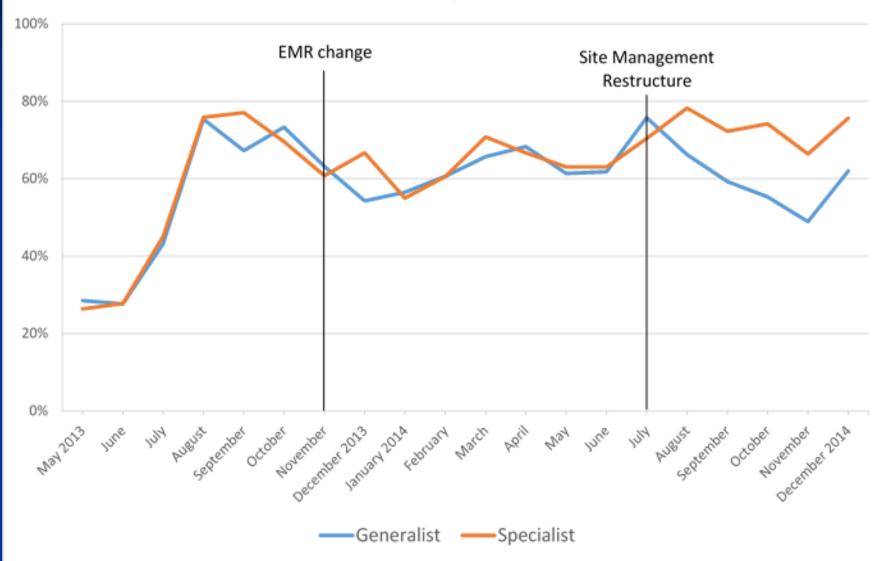
Screening (p=.52)

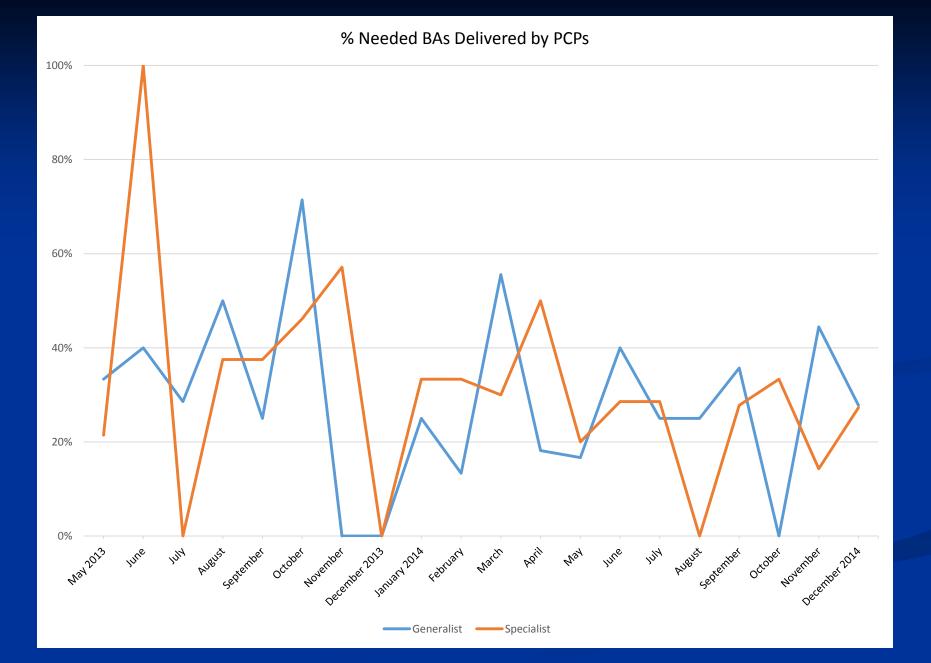
BA delivery (p=.77)

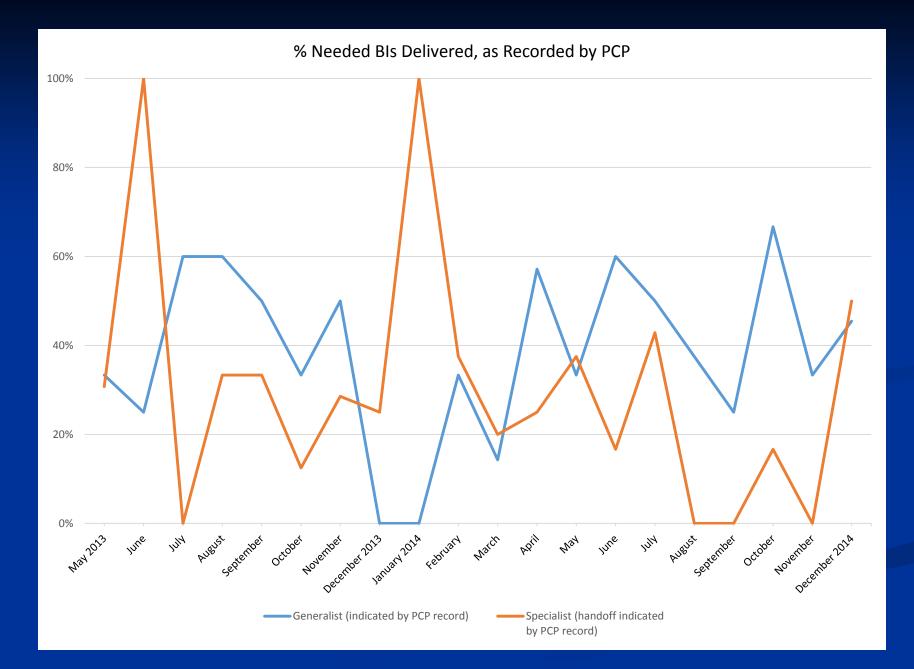
Significant differences between Generalist and Specialist conditions in penetration of BI delivery

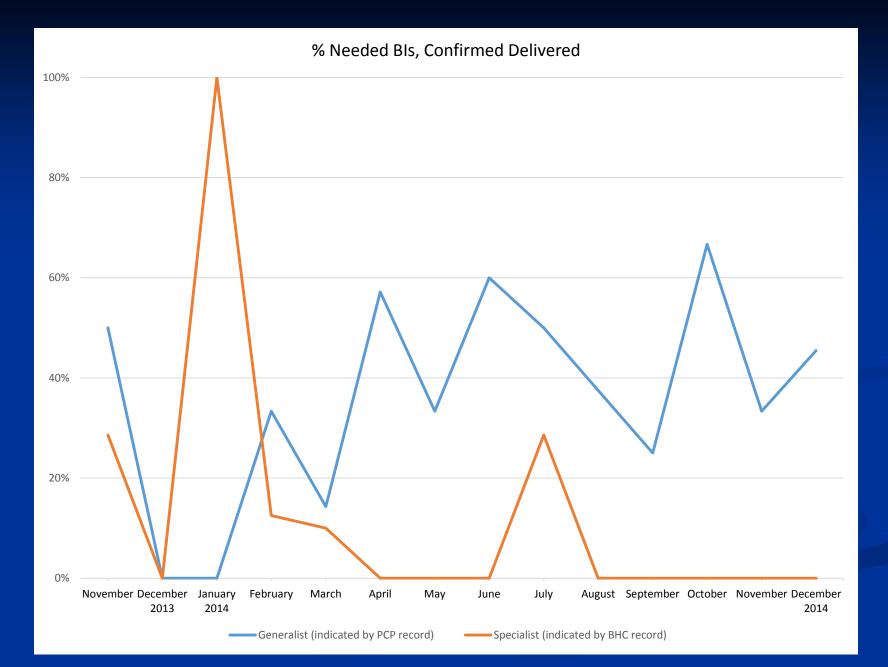
 Generalist Condition had significantly higher penetration of BI delivery than the Specialist Condition (p=.005)

% Adolescent Visits Fully Screened for aSBIRT









Current Study Activities:

Monitoring Sustainability and Understanding Implementation Processes in a Complex, Changing System

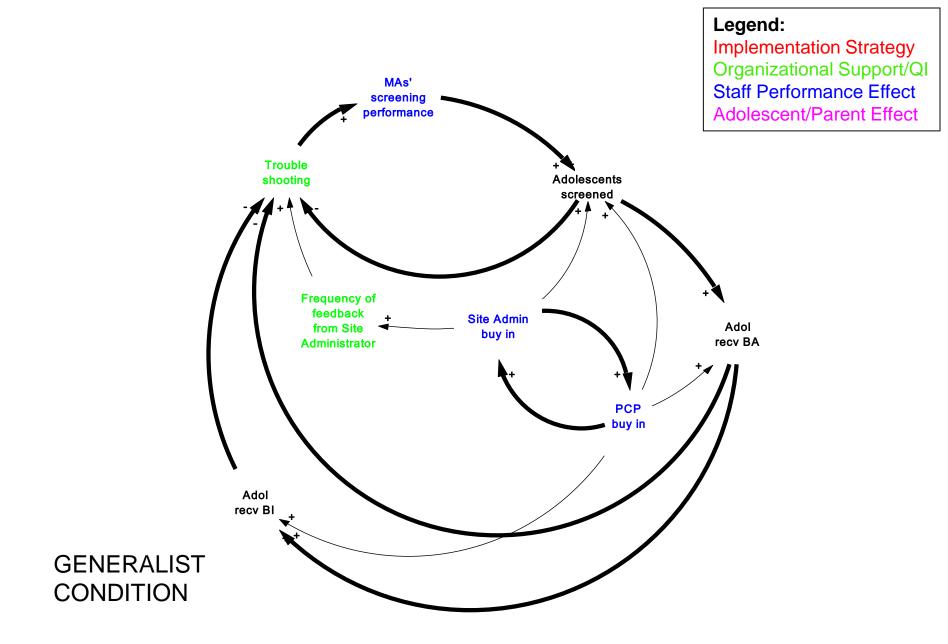
Current Study Activities

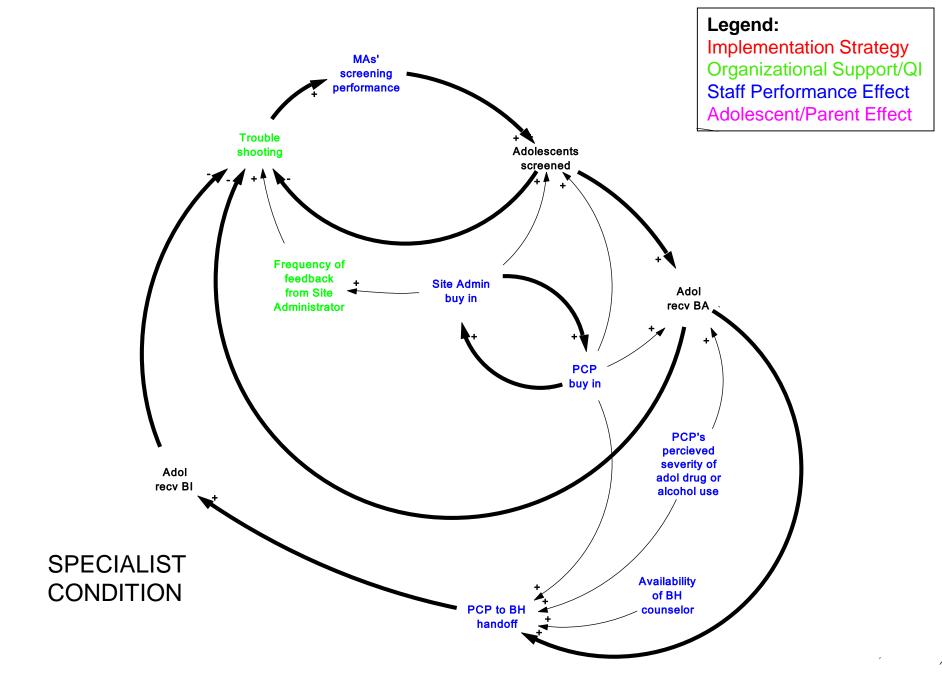
Sustainability Phase (Jan – Dec 2015)

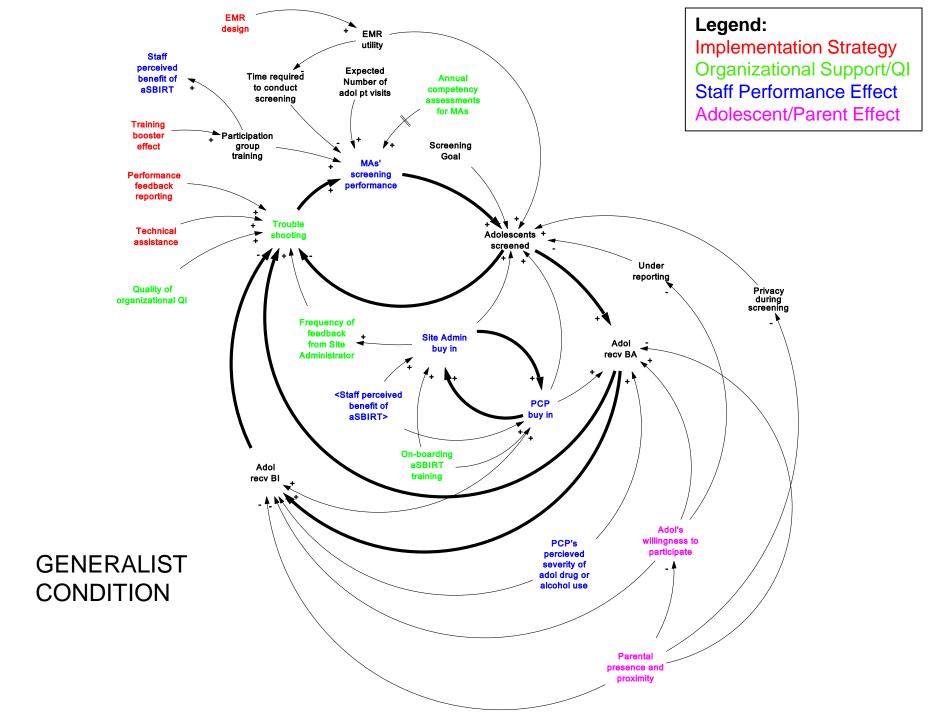
- Collect EMR data to detect changes in Screening, BA and BI delivery penetration w/o supportive elements
- Track organizational change and institutionalization of adolescent SBIRT
 - MA annual competency training, PCP on-boarding process, PCMH transition

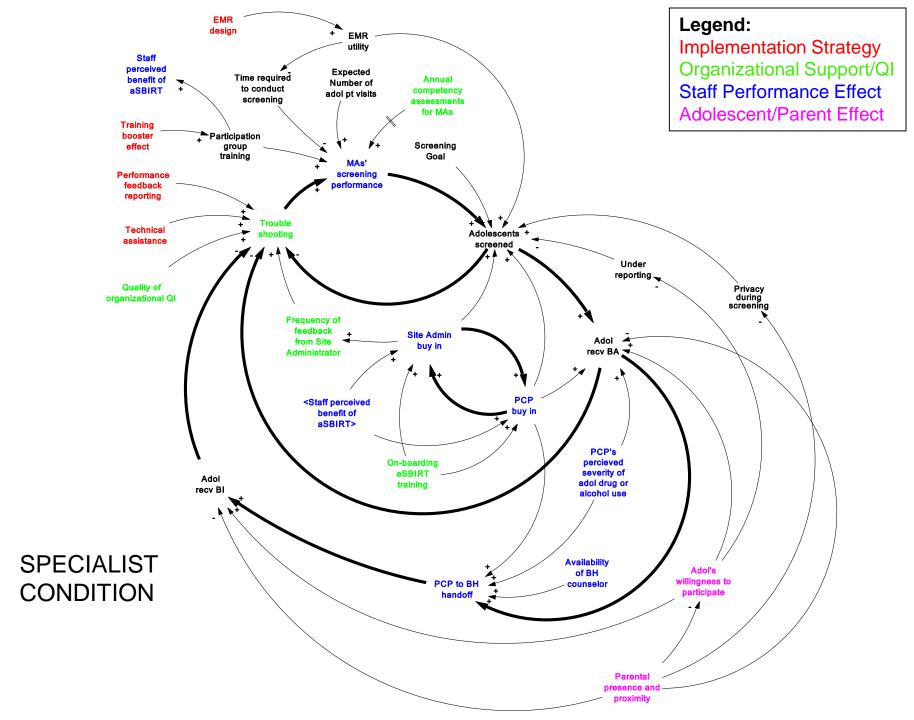
System Dynamics Modeling

- Identify feedback structures and understand how things change
 - Use "hard" and "soft" data









Thank you

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