Pediatric Models of Behavioral Health Integration

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LEVELS OF INTEGRATION

Coordinated	Co-located	Integrated	
Minimal collaboration, Basic collaboration siloed care at separate locations	BHP on-site, BHP and PCP keep separate schedules, records, and treatment plansSome systems 	Close collaboration, shared treatment plans and records, some joint visits on PCP schedule Close collaboration, shared treatment plans and records, most appointments on PCP schedule	
Note: BHP = Behavioral BH TIPS	Community / Hospital / ACO BHI Initiative		
ECHO ®		NATIONWIDE CHILDREN'S	

Partners For Kids...



<u>Behavioral Health Treatment Insights and Provider Support</u> (BH-TIPS program)

Scheduled video consultations for community providers

Provide Support to PCPs



- Medication management
- Diagnostic clarification
- Treatment planning
- Resources and linkages

Improve Quality of Care



- Improve BH competencies
- Connecting specialists with local providers and resources

Mitigate Current Challenges of Access



- Reduce wait times
- Improve access
- Reduce ED visits & hospitalizations
- Support community





Project ECHO

Foundation & Advanced Cohorts



Child Behavioral Health

Hub & Spoke Model



Project ECHO: NCH Child Behavioral Health Cohort 3

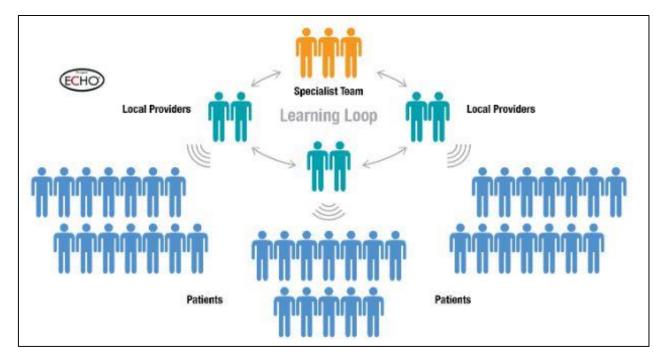




Extension for <u>Community</u> <u>Healthcare Outcomes</u>



Goal: To equip clinicians everywhere to provide better care to more people right where they live through education and support.



Tele-mentoring to increase capacity to help them mange specialty conditions in the primary care setting.

Different way to teach and confidence to take the next step with management.



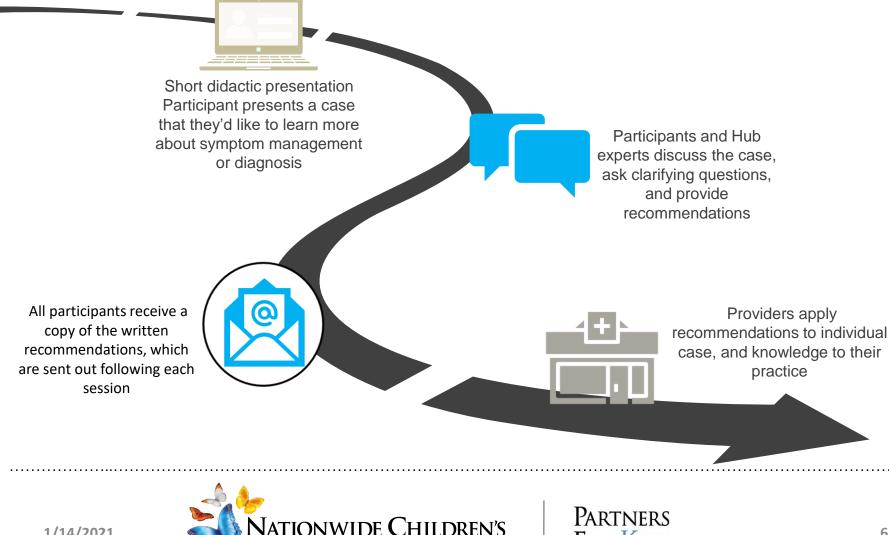
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Project ECHO - Structure

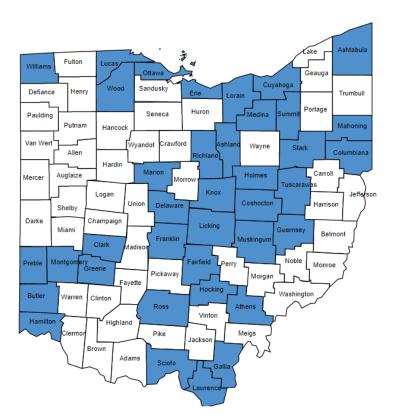
Moving knowledge, not patients, through facilitated case discussions and didactic presentations



When your child needs a hospital, everything matters."

FOR KIDS.

2020 BH Primary Care ECHO Impact



- 41 counties
- 101 unique organizations
- 75 primary care providers
- Total 9 cohorts





Peds BH ECHO Outcomes

Hostutler et al

Outcome	Pre mean (SD)	Post mean (SD)	Р	Effect siz
Overall change across domains	61.13 (16.00)	78.22 (6.63)	.001	0.62
Supporting referral follow through	61.69 (22.50)	69.92 (17.77)	.016	0.16
Knowing local resources	70.08 (18.83)	79.85 (14.06)	.019	0.19
Able to effectively prescribe	60.00 (24.61)	73.69 (16.71)	.047	0.39
Diagnosing	62.85 (22.02)	78.38 (14.70)	.006	0.54
Evidence-based interventions	51.31 (27.22)	74.54 (14.28)	.005	0.55
Screening tools	67.77 (25.07)	84.15 (12.10)	.002	0.60
Knowing prescribing guidelines	64.46 (17.77)	84.08 (10.69)	.002	0.60
Non-pharmacological interventions	57.77 (19.32)	79.23 (11.81)	.002	0.60
Providing education and resources	55.08 (16.05)	80.15 (11.18)	.001	0.62

Table 3. Self-Reported Knowledge and Competence Changes.

^aEffect sizes are as follows: small is 0.1, moderate is 0.3, and large is 0.5.²⁶

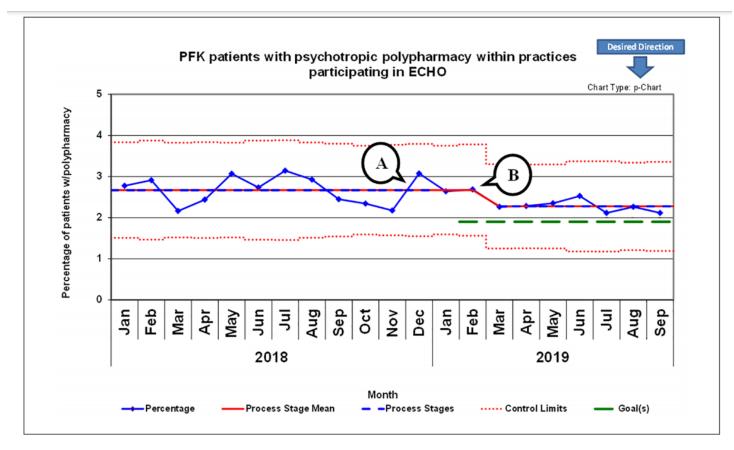
Hostutler CA, Valleru J, Maciejewski HM, Hess A, Gleeson SP, Ramtekkar UP. Improving Pediatrician's Behavioral Health Competencies Through the Project ECHO Teleconsultation Model. Clin Pediatr (Phila). 2020;59(12):1049-1057.

Partners

FOR KIDS.



Peds BH ECHO Outcomes

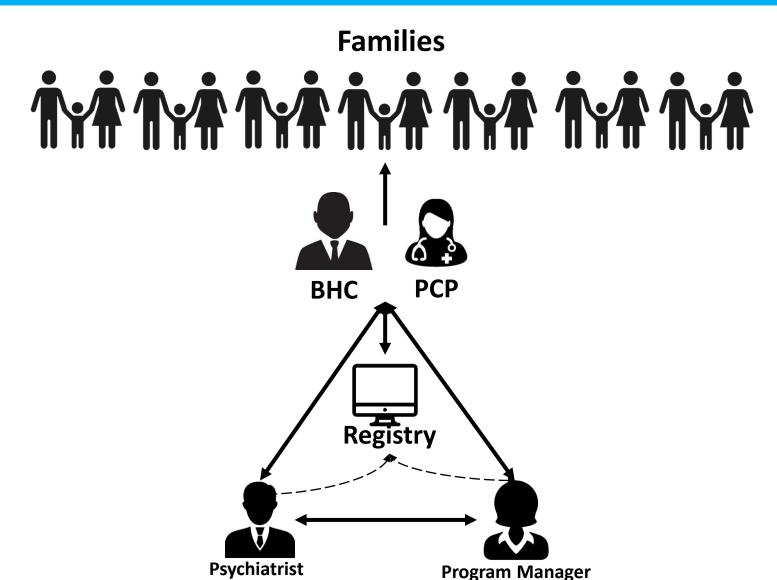


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Community / Hospital / ACO BHI Initiative



Families

BHC

Registry

PCP

- Deliver BH interventions
- Enter data & use registry
- Consult w/ Program Manager
- Collaborative Treatment Planning

Hostutler CA, Ramtekkar U.R. Using Measurement-Based Care Data in Population Health Management. *Child and Adolescent Psychiatric Clinics of North America*. 2020;29(4):733-741.

Hostutler, C.A. & Ramtekkar, U.R. (in press). Development and Functionality of a Pediatric Behavioral Health Registry for Integrated and Collaborative Care Models. *Family, Systems, & Health*.

Psychiatrist

- Case-Review & Med Consultation
- Program Leadership

- Identifying BH need
- Connecting Family to BHC
- Collaborative Treatment Planning

Track patient outcomes

- Caseload management tools
- Track operational processes
- Population Health Management

• Operational & Technical Assistance

- Monthly Case-Review & Consultation
- Clinical Support and Trainings

Program Manager

Monthly Case Reviews

- Meet once per month to review caseload in registry
 - Program Manager, Psychiatrist, PCP, BHC
- Identify successful, unchanged, and worsening patients
- Obtain operational, pharmacological, and nonpharmacological case-support



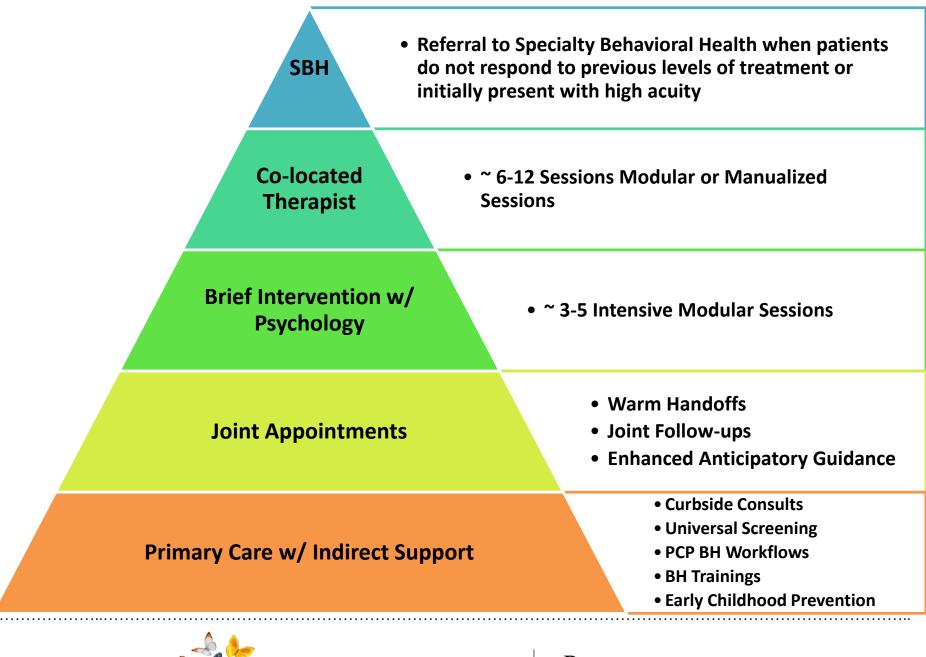




Designing and Evaluating a Blended, Stepped Model of Primary Care Integration to Improve Access for Underserved Populations



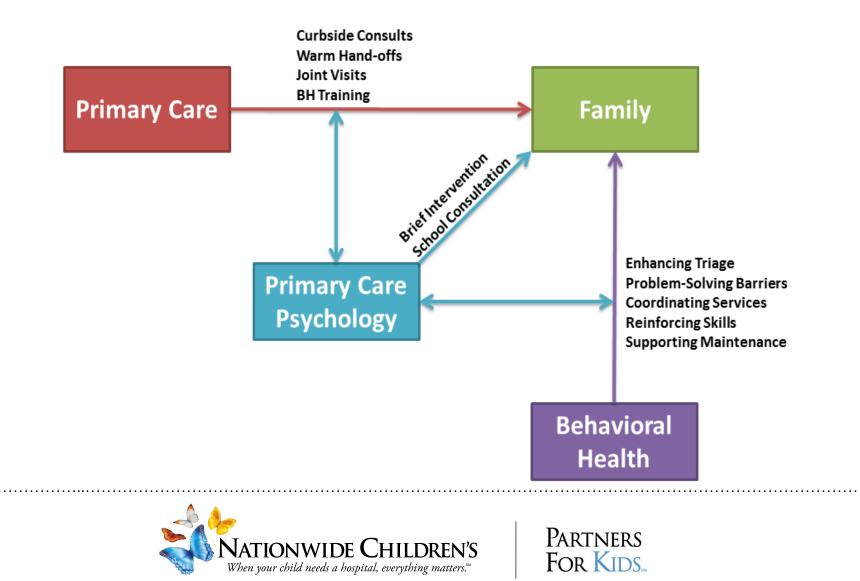








Integration Model at NCH



Integrated Primary Care at NCH

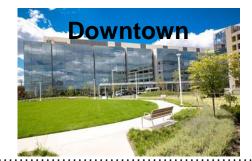






- 7 Psychologists in 7 clinics, 4-5 days per week
- Psychology intern ½ day twice per month
- Two Fellows
- Two co-located therapists







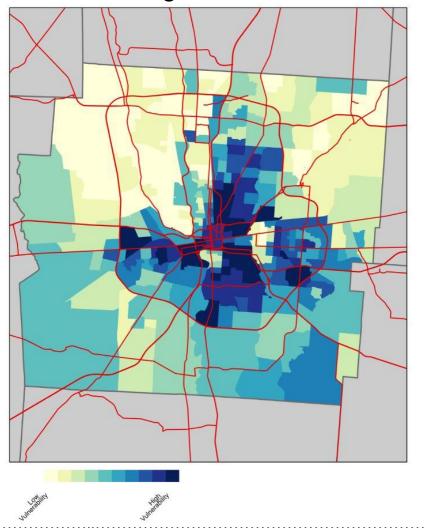




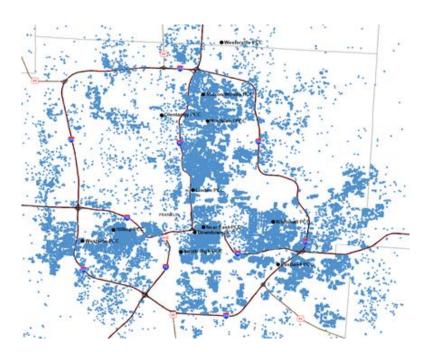


The Ohio Vulnerability Index (OVI)

Composite, area-based measurement of neighborhood socioeconomic and structural conditions



> 100,000 Patients



Partners

FOR KIDS.

Judith Groner MD Division of Primary Care Pediatrics NCH /Elisabeth Root PhD Division of Geography OSU /Primary Care

JATIONWIDE CHILDREN'S

When your child needs a hospital, everything matters.st

Research Affinity Group

Integration Model at NCH

Highly integrated: ~ 70% of visits on medical providers' schedules

Wide range of conditions

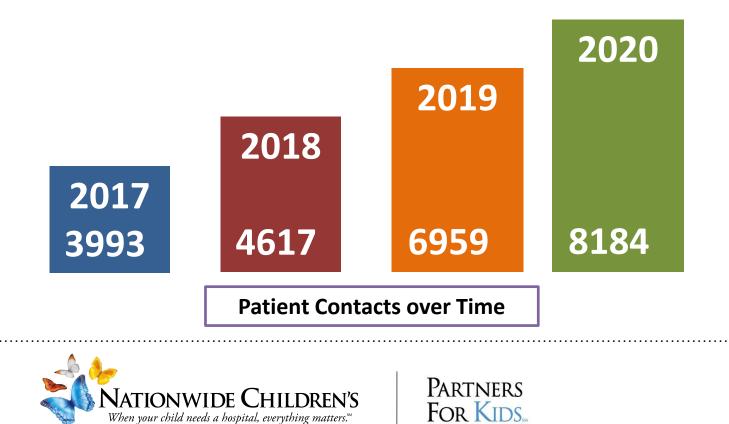
 Whatever Walks through the Door: Sleep training infants, breast feeding cessation, anxiety, depression, feeding, picky eating, med adherence, early childhood attachment/prevention, ADHD, disruptive behaviors, trauma, grief, etc

Reach: We see 5-10% of all PC visits, of any age, for any reason



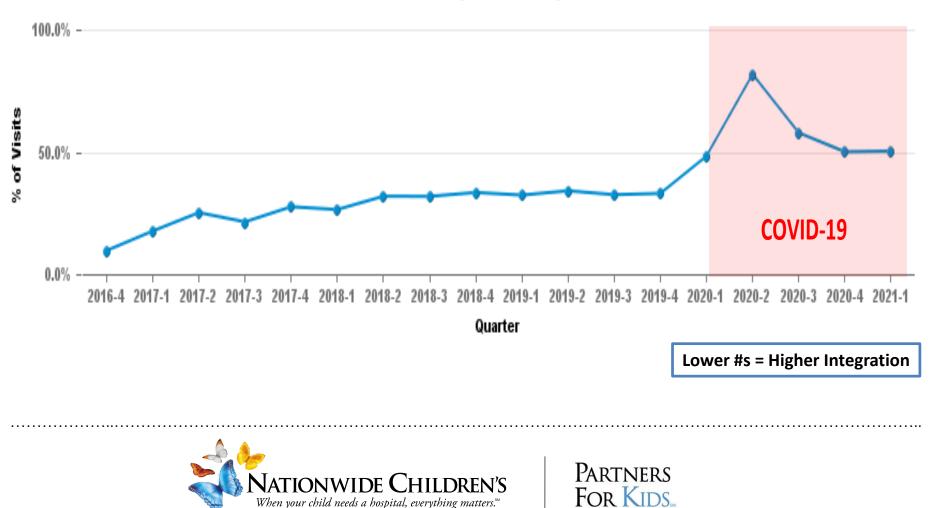


Growing Volume over Time

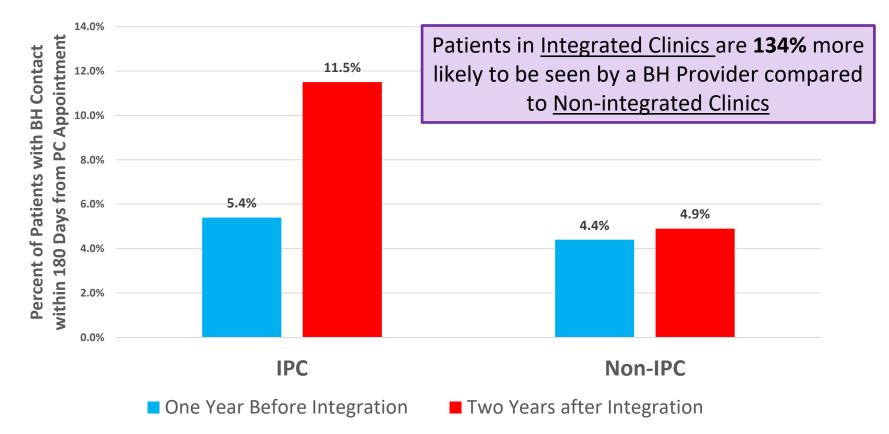


Level of Integration

All Clinics Combined - % of Psych Visits on Psych Schedule



Increased Access to Care



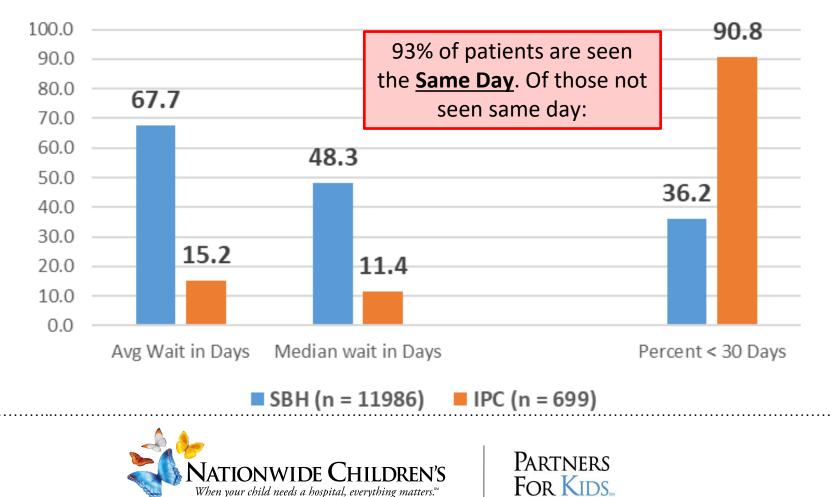
A 65.5 FTE growth in clinical BH providers during this time yielded a 0.5% increase in reach; contrasted with a 6.1% increase in access when investing 4 FTE in our integrated clinics.



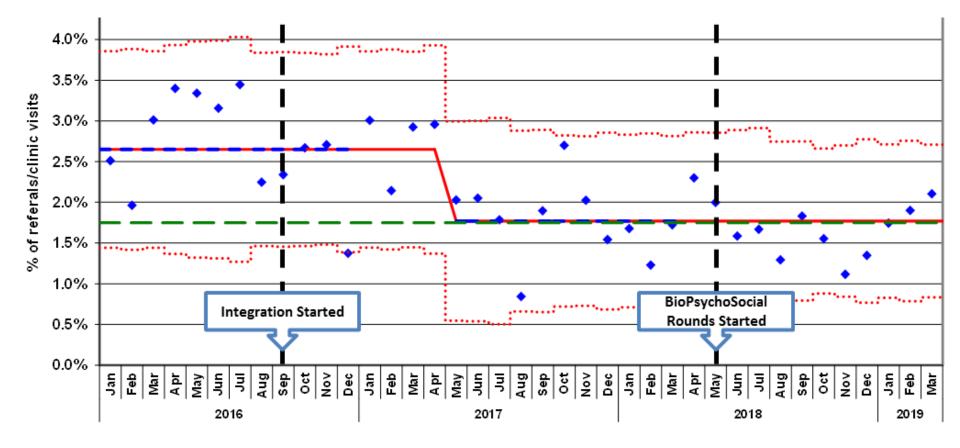


Quick Access to Services

Wait Time Comparison



Reduction in SBH Referrals







Improved Physician Experience

	Average
I am more efficient with addition of IPC	4.8
Better coordination of mental health concerns	4.8
More answers for my mental health questions	4.7
Developed new skills for managing BH concerns	4.6
I feel more confident managing BH concerns	4.4

Notes. Likert scale with 1 = "Strongly Disagree" to 5 = "Strongly Agree." N = 25 PCPs.





Demographic Differences between IPC & SBH

	Specialty Behavioral Health (n = 4325)	Integrated Primary Care (n = 5005)
Ages		
0-2 years ^b	530 (12.3%)	1180 (23.6%)
Race		
White ^b	1119 (25.9%)	1053 (21.0%)
Latinx ^b	494 (11.4%)	814 (16.3%)
Insurance		
Commercial ^a	419 (9.7%)	386 (7.7%)
Medicaid	3727 (86.2%)	4327 (86.5%)
Self/Other ^b	179 (4.1%)	292 (5.8%)





Thanks to Our Incredible Teams





