



ECHO Autism

Extension for Community Healthcare Outcomes (ECHO) Autism

Helping pediatricians care for youth with ASD: New technology and how it is being used to teach primary care providers about ASD across New York State

Presented by:
Lisa Latten and Shane Lawson

INSPIRED BY A GLOBAL PROBLEM

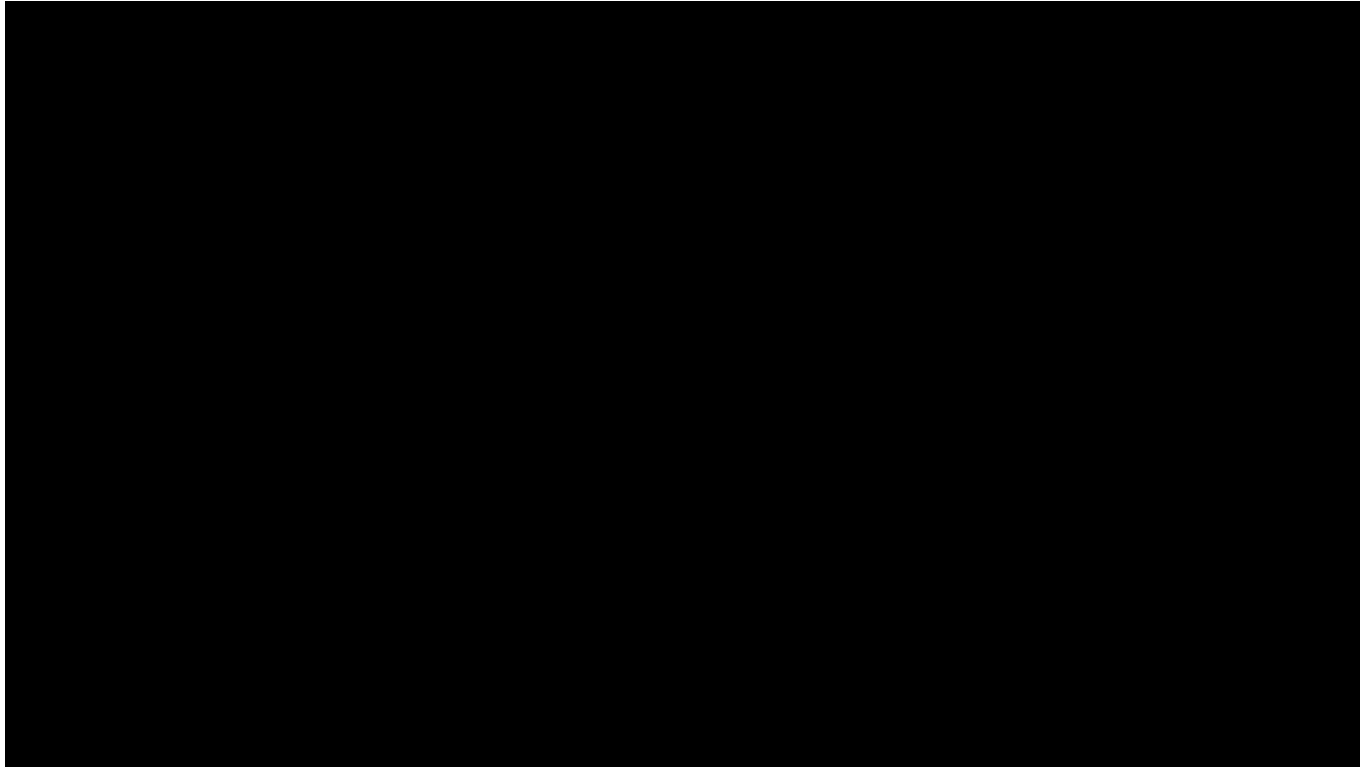


Launched in 2003, Project ECHO grew out of one doctor's vision. Sanjeev Arora, MD, a liver disease specialist at the University of New Mexico Health Sciences Center in Albuquerque, was frustrated that he could serve only a fraction of the HCV patients in his state who needed treatment.

He wanted to serve as many patients with HCV as possible, so he created a free, virtual clinic and mentored community providers across New Mexico in how to treat the condition.

"Using a revolutionary model of telementoring, collaborative medical education and care management, Project ECHO empowers front-line primary care professionals to provide the right care, in the right place, at the right time."

WHAT IS ECHO?



HIGH IMPACT OUTCOMES



ECHO Hub

Team of Specialists



ECHO Spoke

*Primary Care
Providers*



Patient Reach

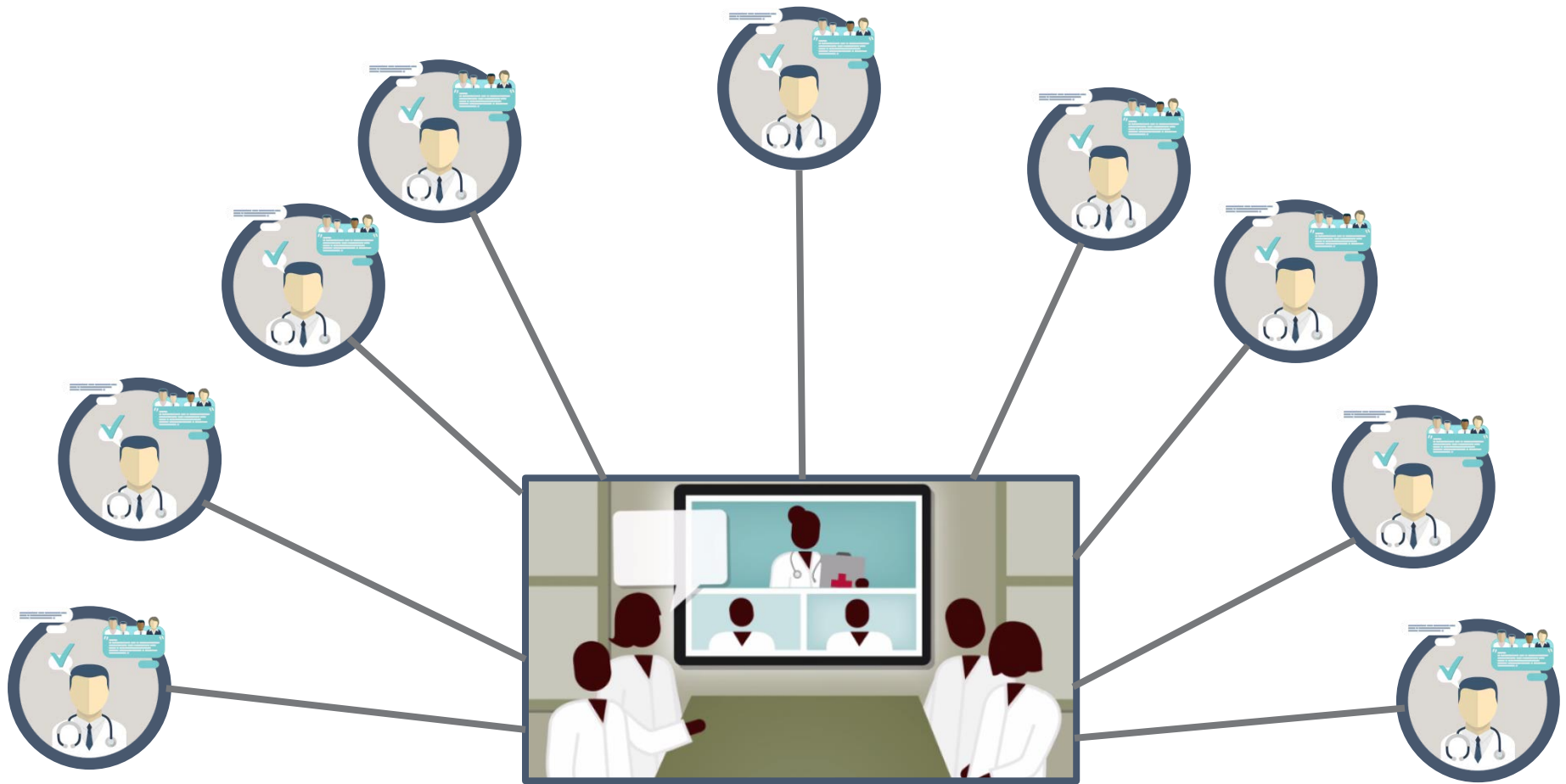
Hub & Spoke Model – ECHO provides front-line providers with the knowledge and support they need to care for complicated patients they would otherwise refer out. ECHO links expert specialist teams at an academic ‘hub’ with primary care providers in local communities – the ‘spokes’ of the model.

HOW IT WORKS



ECHO connects providers with specialists through ongoing, interactive, telementoring sessions.

- ECHO creates ongoing knowledge networks by linking primary care providers at numerous locations with a team of expert inter-disciplinary specialists, to mentor them to treat their patient cases.
- These specialist teams use low-cost, multi-point videoconferencing technology to conduct teleECHO clinics with community providers.
- Specialists serve as mentors, training community providers to provide care in clinical areas that previously were outside their expertise.

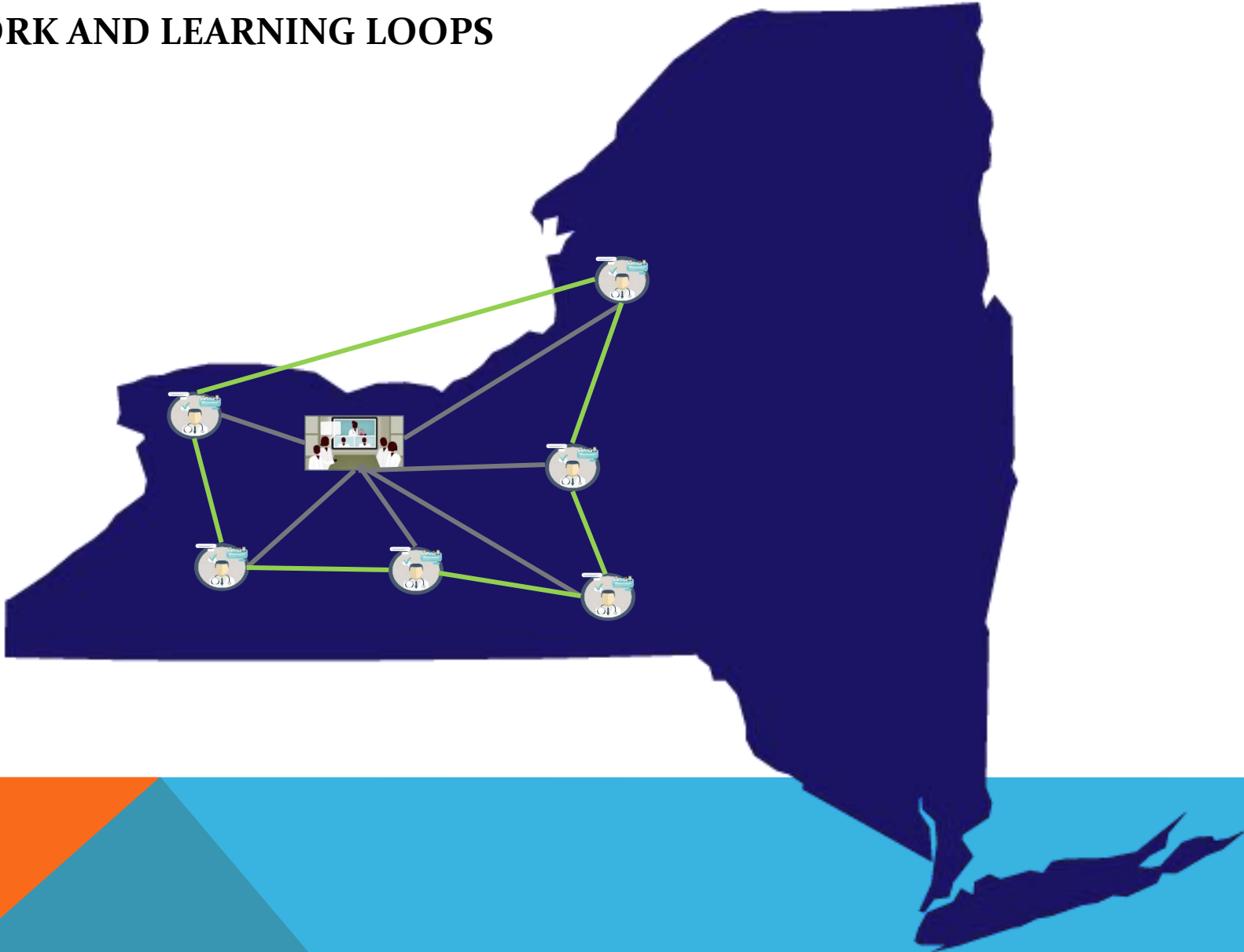


ECHO Hub Team of Specialists

At the ECHO Clinic, the Hub Team of Specialists convenes at a single location and uses ZOOM videoconferencing technology to open the clinic.

Providers from spoke sites all over check into the clinic remotely from various locations to receive telementoring.

CREATION OF A KNOWLEDGE NETWORK AND LEARNING LOOPS



WHY ECHO?

THE UNDERSERVED PATIENTS

PROBLEM:

Underserved patients have limited access to quality specialist care for common complex conditions.

SOLUTION:

A model that expands access to care by leveraging telementoring and guided practice to build system capacity by empowering primary care providers to care for complex conditions at their local clinic.



WHY ECHO?

THE PRIMARY CARE PROVIDER

PROBLEM:

- Want to advance their skills, career, and professional relationships.
- Lack access to knowledge and training to provide specialty care for their patients.
- Providers often feel socially and professionally isolated.

SOLUTION:

- Providers engage in community with like-minded fellow providers and specialists from academic centers.
- Develop specialized knowledge.
- Provide specialty care for common complex conditions.
- Receive CME credits.



“Providers participating in ECHO in New Mexico felt their professional isolation diminish, professional satisfaction and self-efficacy for treating hepatitis C increase.¹”

1. Arora, S., Kalishman, S., Thornton, K., Dion, D., et al: Hepatology. 2010. September 52(3): 124-33.

WHY ECHO?

THE ECHO HUB/FQHC/COMMUNITY HEALTH CENTER

PROBLEM:

- Limited ability to provide specialty care for common complex conditions.
- Difficulties recruiting and retaining community providers.

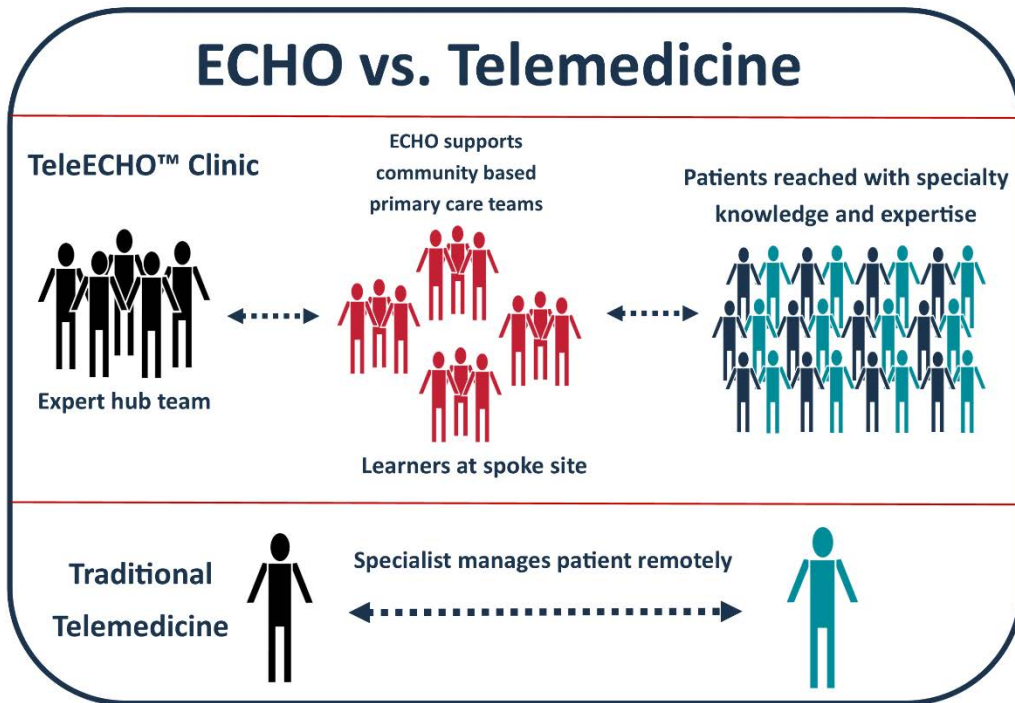
SOLUTION:

- Primary care providers acquire new skills and competencies, expanding access to care.
- Primary care providers become part of a community of learners, increasing their professional satisfaction while their feelings of professional isolation decrease.



“Through ECHO, FQHCs have a way to expand access to care for complex chronic conditions and serve more patients, while keeping treatment dollars in the community. They also acquire a new tool for recruiting and retaining providers.”

HOW IS ECHO DIFFERENT FROM TELEMEDICINE?



Key Differences

- ECHO works to build expertise at the front lines of care to safely and effectively manage common complex conditions so that providers can meet the need for specialty care in their communities.
- ECHO is an ongoing learning network that is not merely consultative and does not develop a patient-provider relationship.
- The ECHO model uses “force multiplication” to exponentially increase workforce capacity through telementoring and guided practice.

LET'S PLAY A QUICK GAME!

LET'S PLAY A GAME!

Instructions:

A statement will appear on the screen.

Please read the statement and decide if it refers to teleECHO or Traditional Telemedicine.

Raise your hand at the appropriate time to indicate whether you think the statement falls into the category of “teleECHO” or the category of “Traditional Telemedicine.”

READY?...HERE WE GO!



STATEMENT #1

“Is an educational model.”

teleECHO

or

Traditional Telemedicine

LET'S PLAY A GAME!

teleECHO	Traditional Telemedicine
<ul style="list-style-type: none"><li data-bbox="150 368 716 408">• Is an educational model.	<ul style="list-style-type: none"><li data-bbox="1025 368 1638 408">• Is a model for patient care.

***ONWARD TO THE NEXT
STATEMENT!***

STATEMENT #2

“Uses technology that allows the specialist to remotely diagnose and treat the patient.”

teleECHO

or

Traditonal Telemedicine

LET'S PLAY A GAME!

teleECHO	Traditional Telemedicine
<ul style="list-style-type: none"><li data-bbox="150 368 772 411">• Is an educational model.<li data-bbox="150 511 919 725">• Uses technology to leverage scarce resources and create knowledge networks of community providers in underserved areas.	<ul style="list-style-type: none"><li data-bbox="1023 368 1700 411">• Is a model for patient care.<li data-bbox="1023 511 1792 696">• Uses technology that allows the specialist to remotely diagnose and treat the patient.

ONWARD TO THE LAST STATEMENT!

STATEMENT #3

“The primary care provider retains care of their patients.”

teleECHO

or

Traditional Telemedicine

LET'S PLAY A GAME!

teleECHO	Traditional Telemedicine
<ul style="list-style-type: none">• Is an educational model.• Uses technology to leverage scarce resources and create knowledge networks of community providers in underserved areas.• The primary care provider retains care of their patients.	<ul style="list-style-type: none">• Is a model for patient care.• Uses technology that allows the specialist to remotely diagnose and treat the patient.• The specialist assumes care of the patient.

Both teleECHO and Traditional telemedicine can be beneficial to underserved communities!

ECHO AT THE UNIVERSITY OF ROCHESTER



- URMC has applied the ECHO Model to support general psychiatry, geriatric mental health and dementia care, palliative care, eating disorders, and more!
- We are currently conducting a research study in the Division of Developmental and Behavioral Pediatrics to assess the effectiveness of the ECHO model applied to the care and treatment of families affected by autism spectrum disorder (ASD) in underserved communities.
- The ECHO Autism study is being implemented by the Autism Treatment Network with funding from Autism Speaks and Autism Intervention Research on Physical Health (AIR-P).

To learn more about Project ECHO at URMC, visit: <http://www.urmc.rochester.edu/project-echo>

ECHO AUTISM AT THE UNIVERSITY OF ROCHESTER

- The Developmental and Behavioral Pediatrics Clinic at URMC is our high volume clinical services home.
- The DBP Clinic offers a multitude of services and programs from evaluation and diagnosis to our feeding challenges program.
- ECHO Autism aims to empower primary care providers in underserved communities to provide front line care to children and families affected by autism spectrum disorder in their local communities.

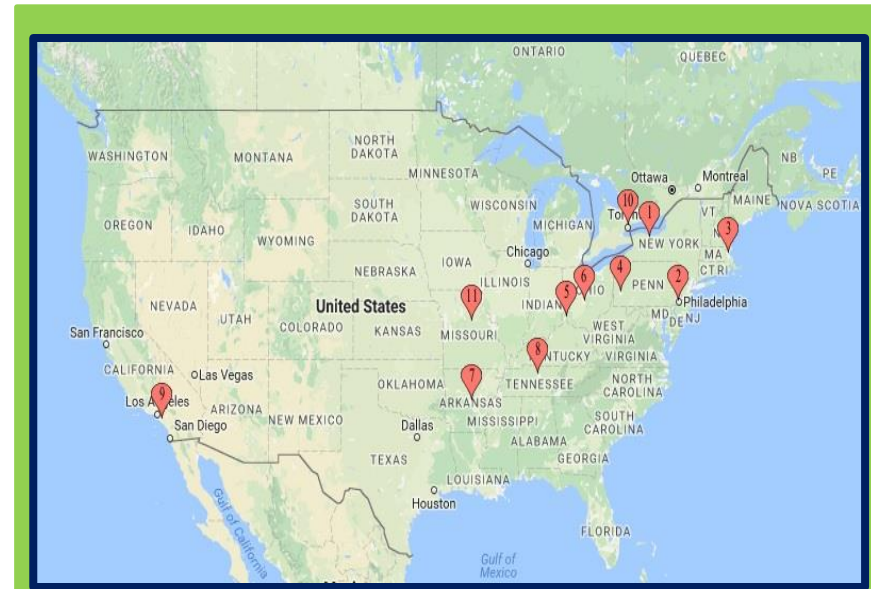


To learn more about the Developmental and Behavior Pediatrics Clinic at URMC, visit:
<https://www.urmc.rochester.edu/childrens-hospital/developmental-disabilities.aspx>

ECHO AUTISM

This study is being conducted across 10 sites of the Autism Treatment Network:

- Children’s Hospital of Philadelphia
- Lurie Center for Autism
- University of Pittsburgh Medical Center
- University of Rochester
- Cincinnati Children’s Hospital Medical Center
- Nationwide Children’s Hospital
- Arkansas Children’s Hospital/UAMS
- Vanderbilt University Medical Center
- The Center for Autism & Neurodevelopmental Disorders at UC Irvine
- Holland Bloorview Kids Rehabilitation Hospital
- Thompson Center for Autism & Neurodevelopmental Disorders at the University of Missouri



The **Autism Treatment Network** has received funding through Autism Speaks and HRSA (AIR-P) to conduct a study to evaluate the effectiveness of the ECHO model as it relates to care of children with autism spectrum disorder.

To learn more, visit: www.echoautism.com



ECHO Autism Collaborative



U Thompson Center for Autism & Neurodevelopmental Disorders
University of Missouri

OUR ECHO HUB TEAM

Specialist Team

Autism Lead Specialist – Susan Hyman, MD

Clinical Psychologist – Ken Shamlian, PsyD

Clinical Dietician - Brianne Schmidt, RD

Family Navigator – Lisa Luxemberg, LMSW

Parent Expert – Lisa Latten, MS Ed

ECHO Autism Production and Support Team

ATN Site Coordinator – Shane Lawson

Technical Director – Keith Stein

Data Manager – Samantha Hochheimer



Susan Hyman, MD
Lead Autism Specialist



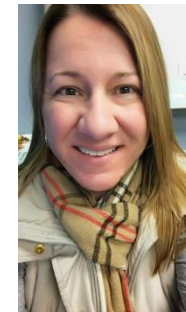
Ken Shamlian, PsyD
Clinical Psychologist



Brianne Schmidt, RD
Clinical Dietician



Lisa Luxemberg, LMSW
Family Navigator



Lisa Latten, MS Ed
Parent Expert



Shane Lawson
ATN Site Coordinator

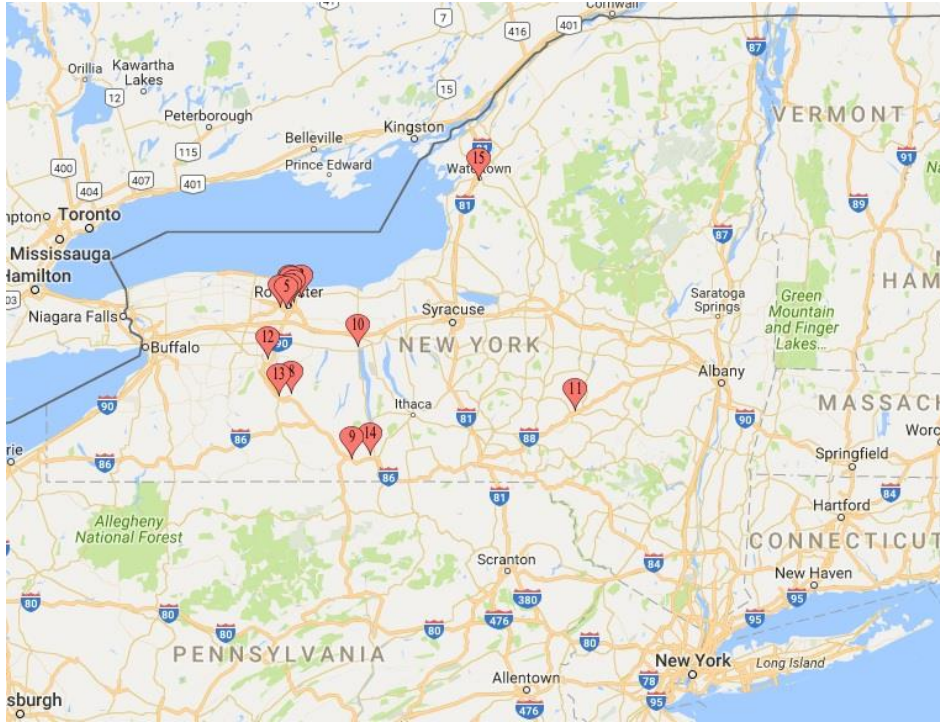


Keith Stein
Technical Director



Samantha Hochheimer
Data Manager

OUR SPOKE SITES



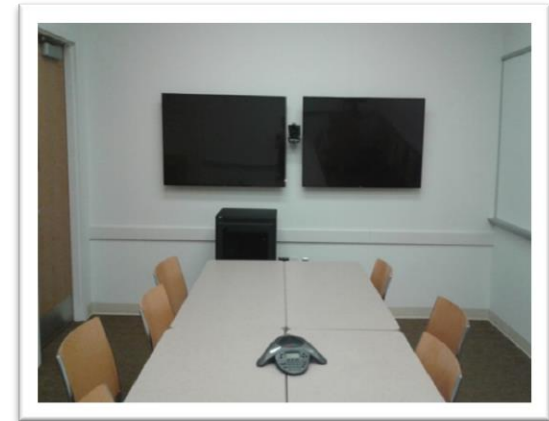
We have recruited primary care providers from 15 different “spoke” sites in NYS:

- Monroe County: 7 spoke sites
- Steuben County: 2 spoke sites
- Chemung County: 1 spoke site
- Ontario County: 1 spoke site
- Ostego County: 1 spoke site
- Livingston County: 2 spoke sites
- Jefferson County: 1 spoke site

ECHO AUTISM CLINICS

ANATOMY OF AN ECHO CLINIC

Time Allotment	Procedure
15 minutes	Introductions & Announcements
30 minutes	Case Presentation No. 1
25 minutes	Didactic Presentation
30 minutes	Case Presentation No. 2
20 minutes	Wrap-Up/Q&A



The Rochester site holds its ECHO Autism clinics on the 1st and 3rd Fridays of each month from 11:30AM to 1:30PM.

ECHO AUTISM CLINICS

ECHO AUTISM CURRICULUM

Date	Presentation Topic	Presenter
3/3/2017	What is Autism?	Susan Hyman, MD
3/17/2017	Screening, Referral, and Common Medical Concerns	Susan Hyman, MD
4/7/2017	Sleep and Autism	Ken Shamlian, PsyD
4/21/2017	Irritability, Autism, and Medication Use	Susan Hyman, MD
5/5/2017	Constipation and Autism	Brianne Schmidt, RD
5/19/2017	ADHD, Autism, and Medication Use	Susan Hyman, MD
6/2/2017	Anxiety, Autism, and Medication Use	Ken Shamlian, PsyD
6/16/2017	Supporting Parents	Lisa Latten, MS Ed
7/7/2017	Resources – Local, State, Regional, and National	Lisa Luxemberg, LMSW
7/21/2017	Common Behavior Strategies in Autism: What is ABA?	Ken Shamlian, MS Ed
8/4/2017	Feeding Issues in Autism	Brianne Schmidt, RD
8/18/2017	What is IEP?	Lisa Latten, MS Ed

LEARN MORE

To learn more about Project ECHO from UNM:

<http://echo.unm.edu/>

To learn more about ATN and ECHO Autism:

<http://www.echoautism.com>

To learn more about Project ECHO at URMC:

<http://www.urmc.rochester.edu/project-echo>

To learn more about the Developmental and Behavioral
Pediatrics Clinic at URMC:

<https://www.urmc.rochester.edu/childrens-hospital/developmental-disabilities.aspx>

QUESTIONS?



Thank you!



ECHO Autism

www.echoautism.com

