



Child Health  
School of Medicine  
*University of Missouri Health*



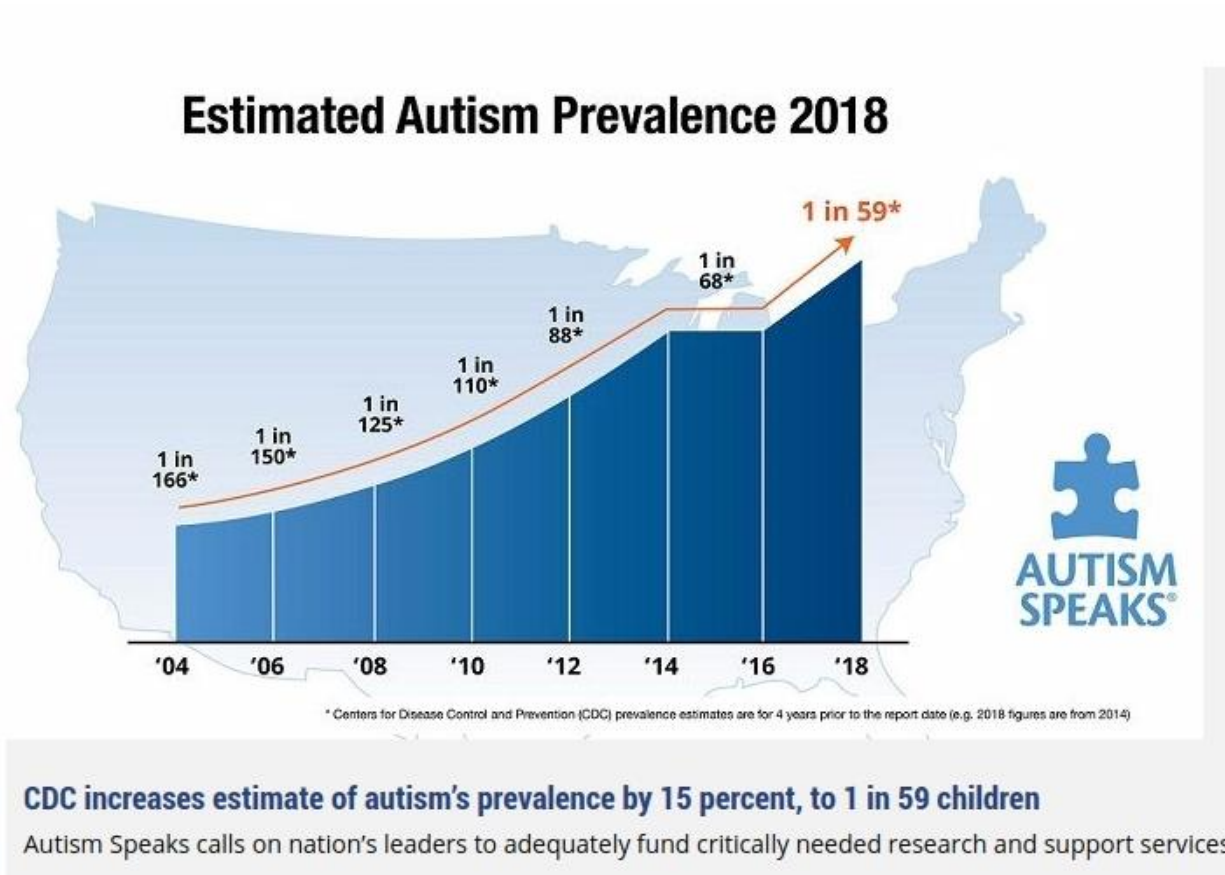
# ECHO Autism

## Bringing Best Practice Autism Care to Communities

Kristin Sohl, MD, FAAP

Associate Professor, Child Health  
Executive Director, ECHO Autism  
University of Missouri Health

# Increasing Gaps



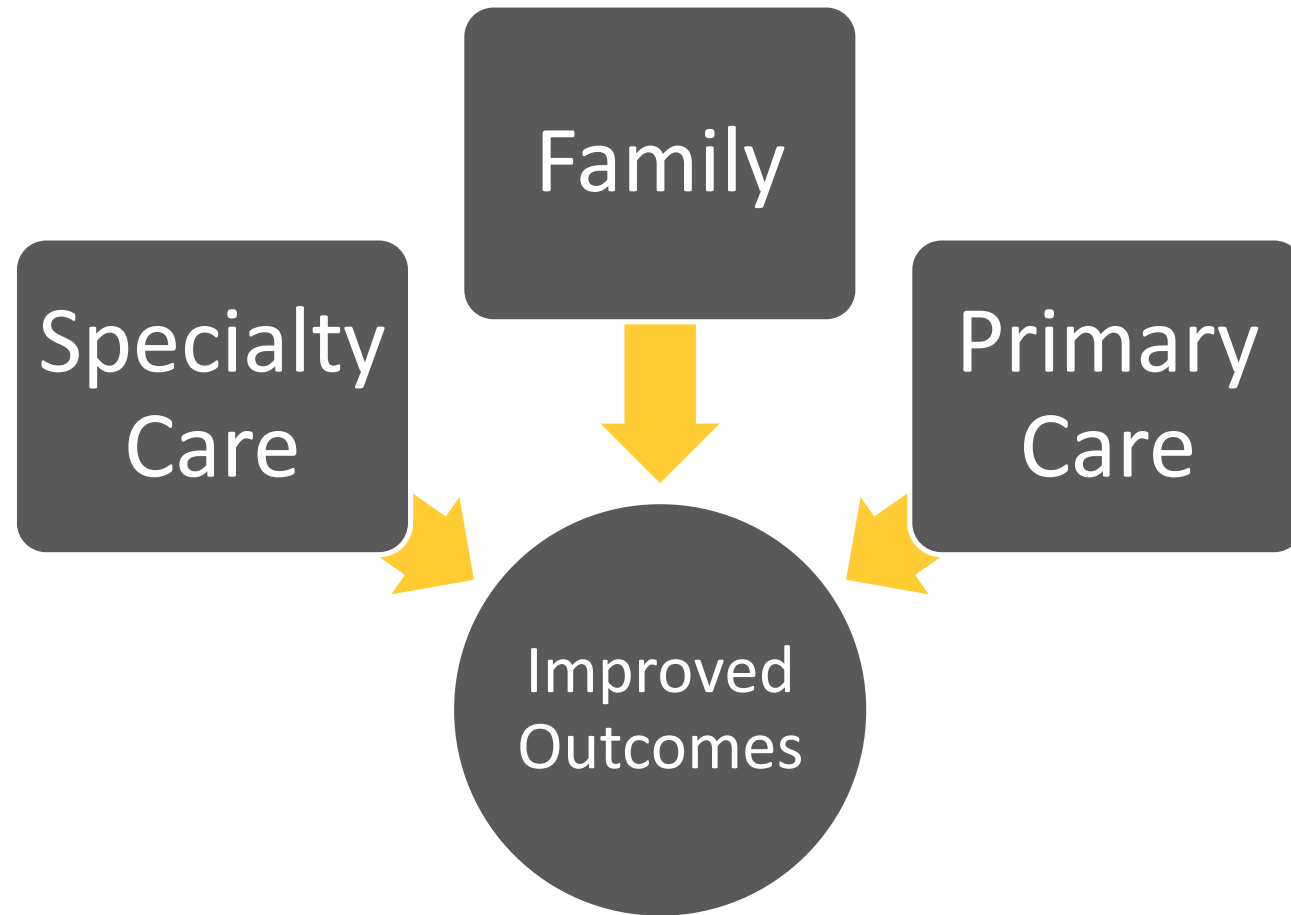
↑Autism awareness

↑Referrals

↑Parents seeking answers

↑Children needing help

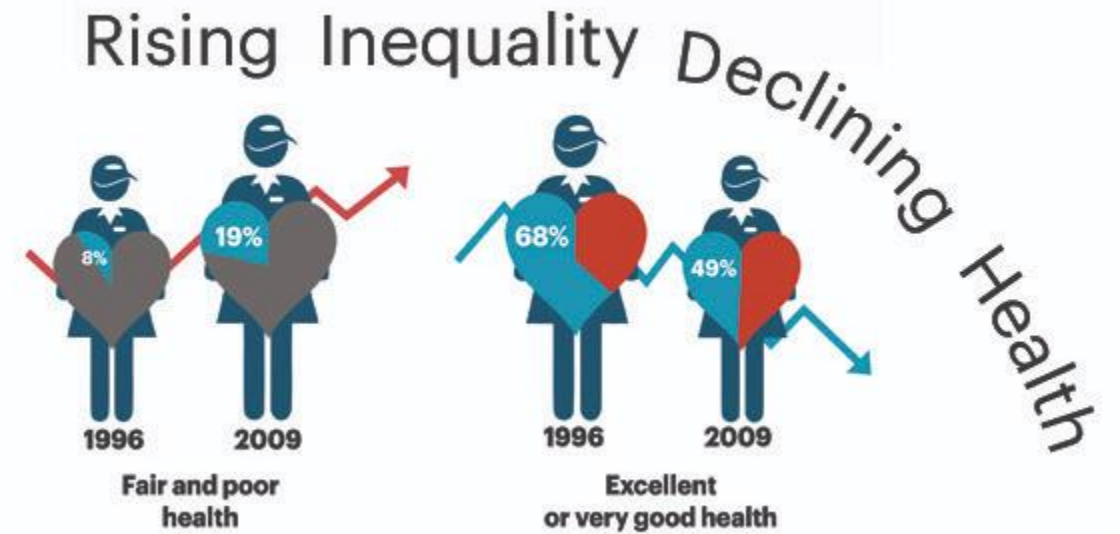
# Perspective



# Health Care System Problems



<http://leadenergy.org/wp-content/uploads/2010/09/supply-and-demand-image1.jpg>



[https://lh4.googleusercontent.com/proxy/Rn9ISqFWXDHQv5fgrk89yww3HURe2T10W3Ny87qLp\\_qUyzes1NmPttt8Q2qwwU15DDORY1fV6Cmle302n2GstoEx3mWGTxiaaX41M6UyhdKQMKRAJ20XHLA\\_6pyjKqGysb9Ma-te\\_M7rHHPH24SGWt-Ja9UDHyq4=s0-d](https://lh4.googleusercontent.com/proxy/Rn9ISqFWXDHQv5fgrk89yww3HURe2T10W3Ny87qLp_qUyzes1NmPttt8Q2qwwU15DDORY1fV6Cmle302n2GstoEx3mWGTxiaaX41M6UyhdKQMKRAJ20XHLA_6pyjKqGysb9Ma-te_M7rHHPH24SGWt-Ja9UDHyq4=s0-d)

# Moving Knowledge, Not Patients



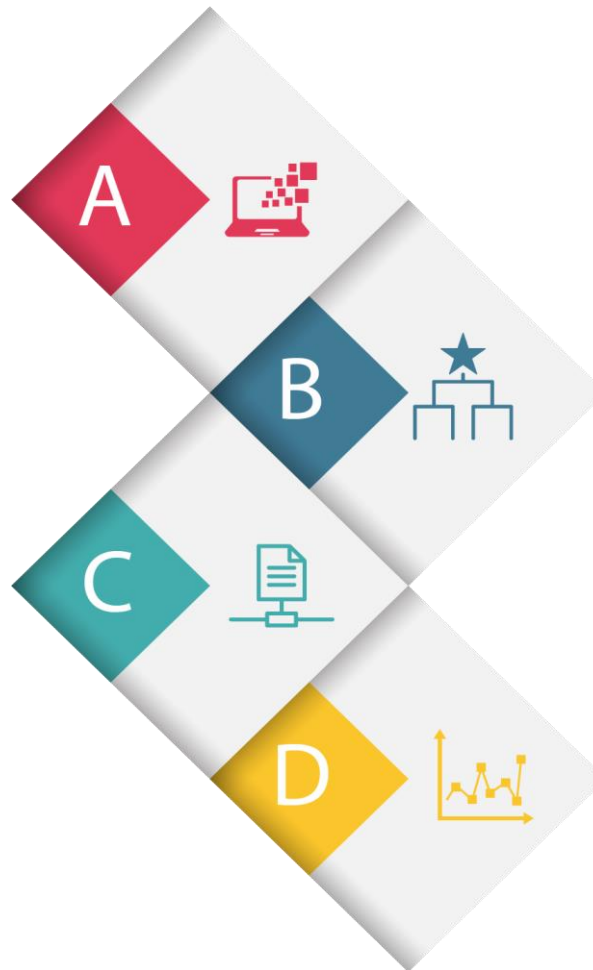


**Extension for Community Healthcare Outcomes**

# The ECHO<sup>®</sup> Model

**A**mplification – Use **Technology**  
to leverage scarce resources

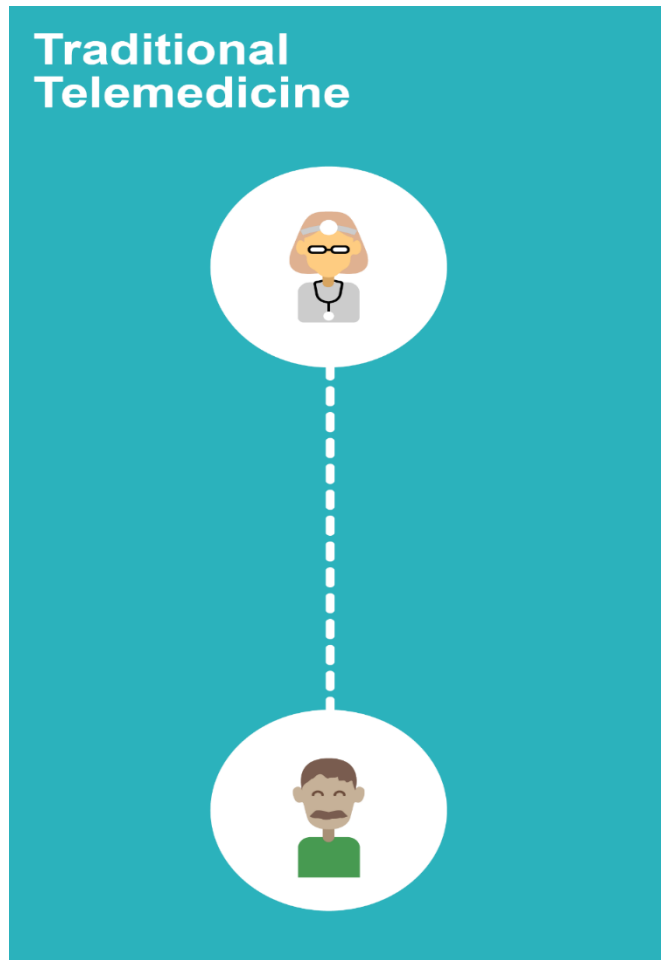
**C**ase Based Learning  
to master complexity



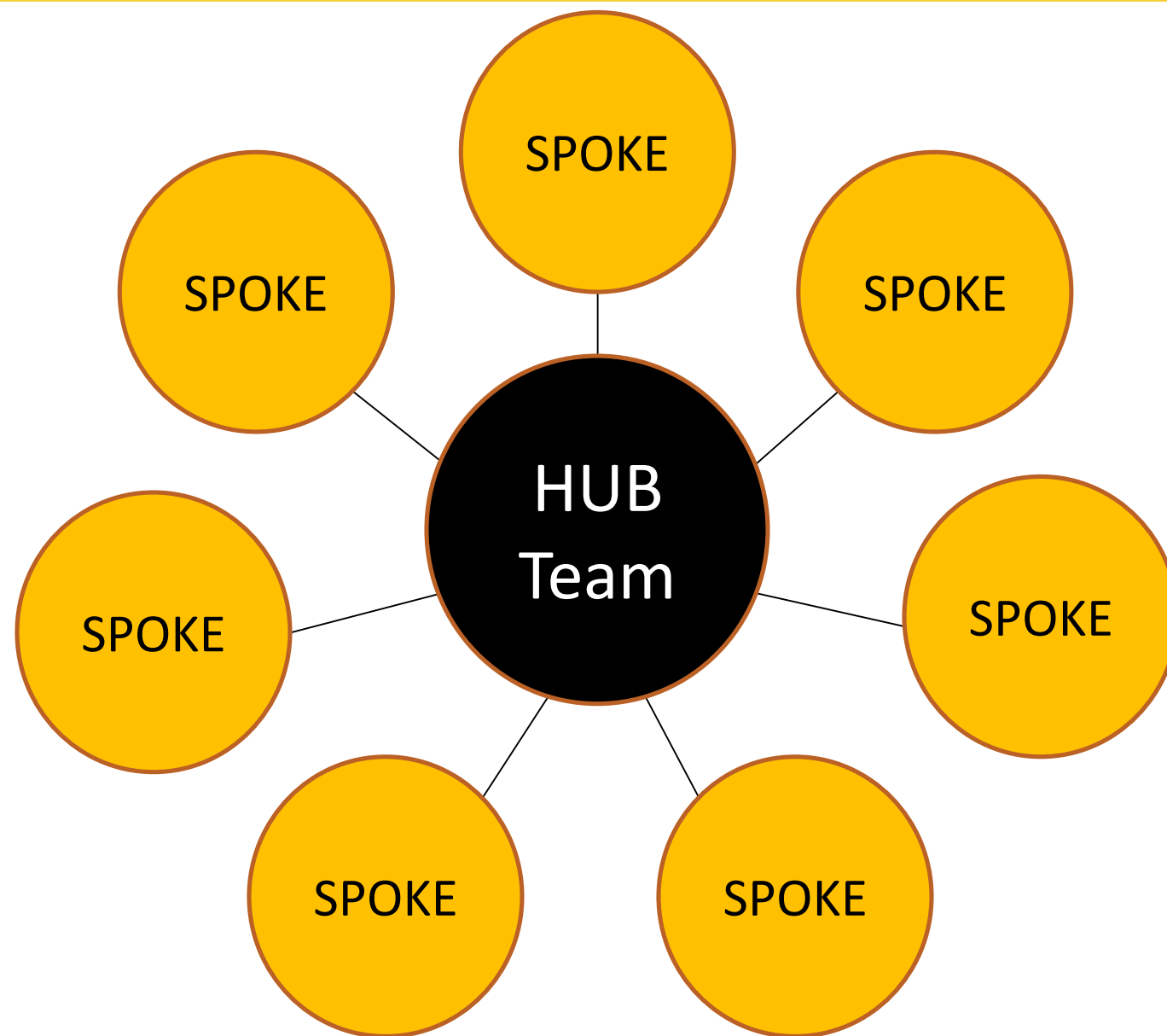
Share **B**est Practices  
to reduce disparity

Web-based **D**atabase to  
**Monitor Outcomes**

# Telemedicine vs. ECHO







# ECHO Platform

## HUB Team



## Spoke Participants



# ECHO Autism Clinic Framework

## Biweekly clinic

Introductions	10 minutes
Case Discussion	35 minutes
Didactic	20 minutes
Wrap Up	10 minutes



**Increase local access to high quality health care for children with ASD**

## ECHO Autism Hub Team



Kristin Sohl,  
MD  
Director



Kerri Nowell,  
PhD  
Clinical  
Psychologist



Rachel Brown,  
MD  
Child & Adolescent  
Psychiatrist



Sheila Chapman,  
MS, RDN  
Registered  
Dietitian



Alicia Curran,  
BS  
Parent Advocate



Melinda Odum,  
LCSW  
Resource Expert

# ECHO Autism in Missouri

Running continuously since  
March 2015

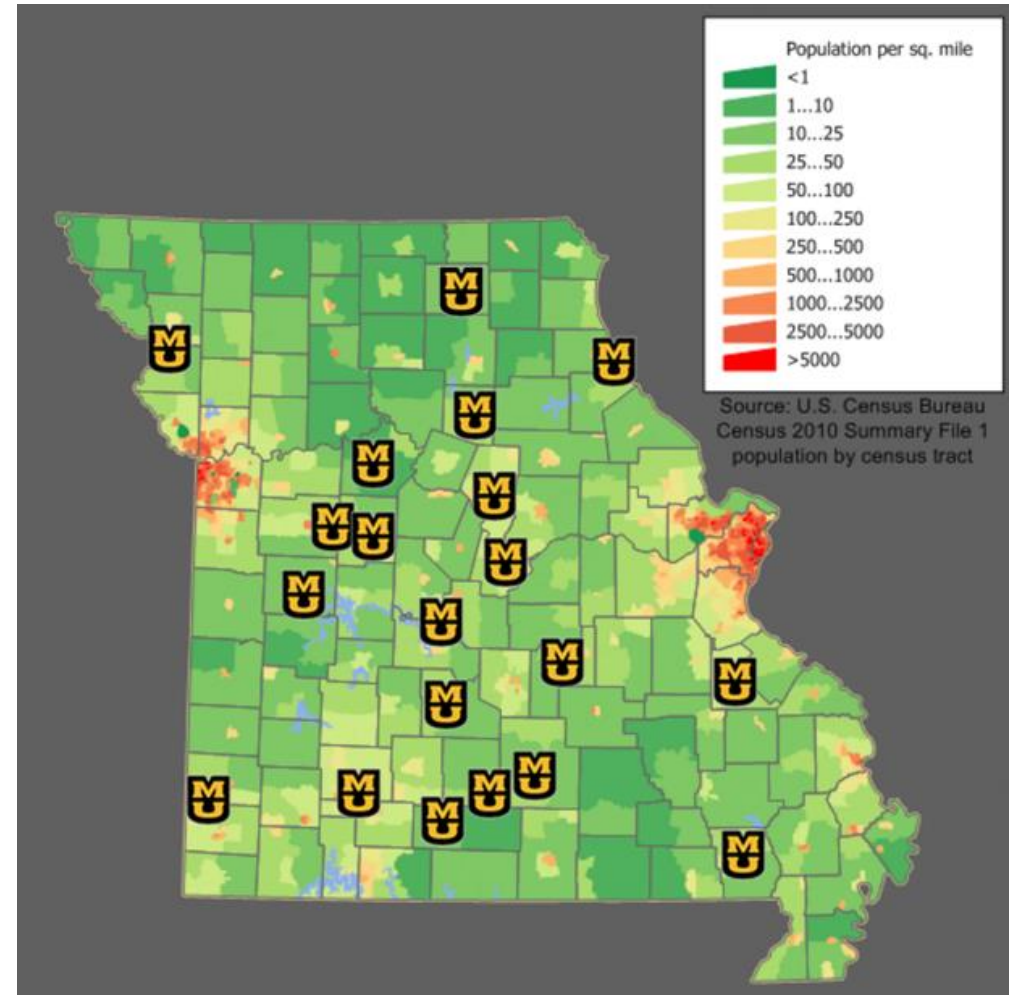
- Unique # of individuals – 471
- Sessions held – 98
- CME Hours – ~780



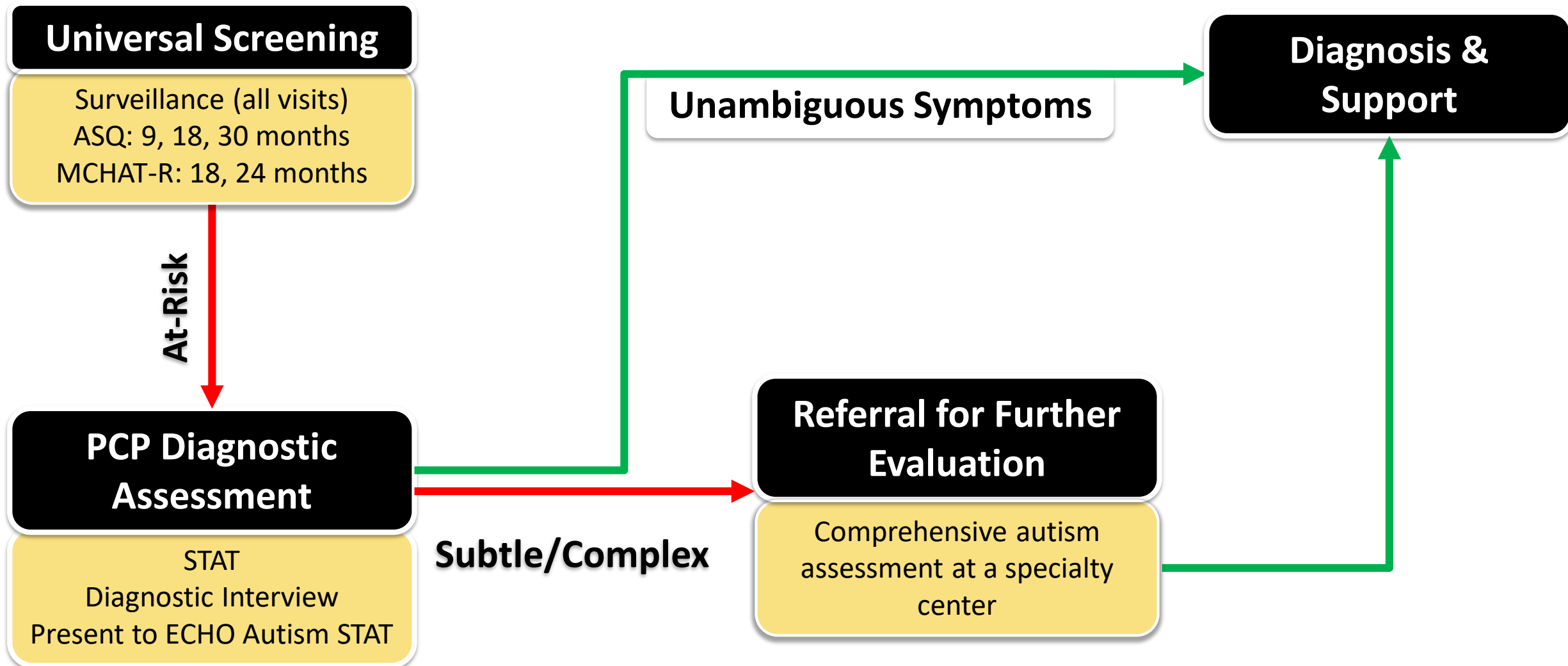
Show-Me ECHO

# ECHO Autism STAT providers

- As of November 2017, all children in Missouri are within 60 miles of an ECHO Autism provider.
- Today, 30 primary care physicians/practitioners are able to evaluate and diagnosis children under 48 months with obvious symptoms of autism.



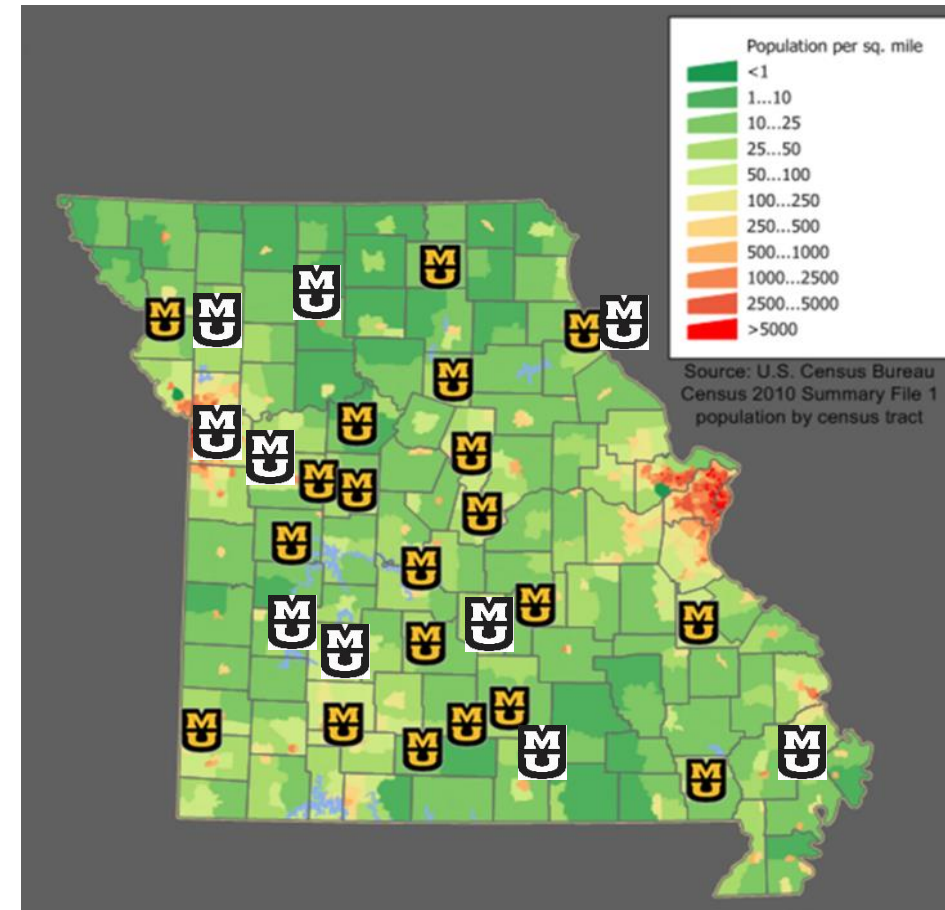
# Multi-Tiered Autism Diagnostic Process





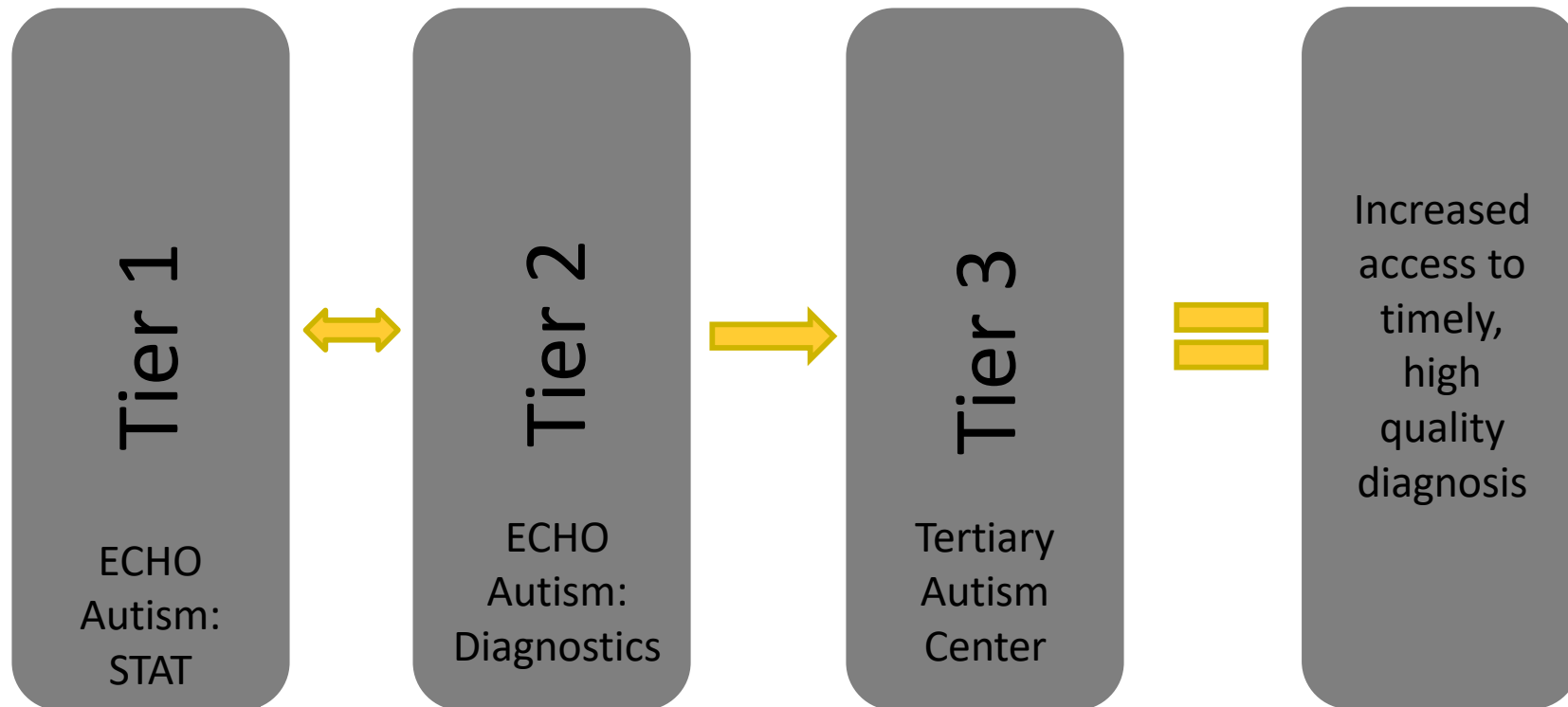
# ECHO Autism: Diagnostics

- In January 2018, community diagnosticians began specialized training in autism diagnostics.
- Community-based diagnosticians are eligible to make diagnoses through ECHO Autism: Diagnostics
- Partnerships between ECHO Autism: STAT and Diagnostic providers will ensure children receive the right diagnosis, at the right time, and in the right place.



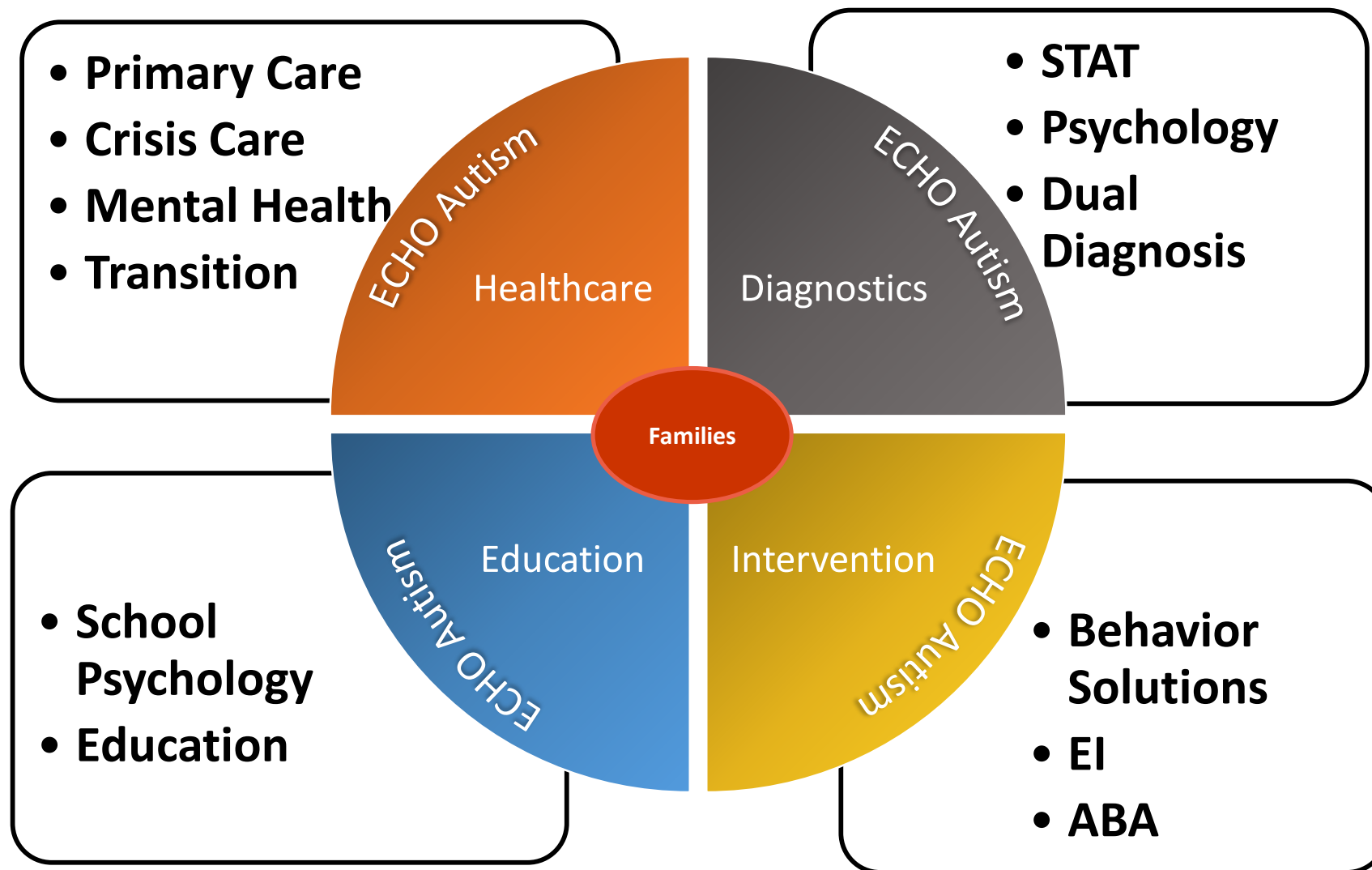
# The Missouri Diagnostic Model

Right Care, Right Time, Right Place





# Autism Ready™ Communities



# Autism Ready™ Communities

## **Vision:**

Equip all communities to care and support individuals with autism and their families through best practices, regardless of geographic location.

## **Mission:**

Utilize the ECHO Autism Model to mentor and guide community practitioners, educators, and advocates, creating local expertise and increasing access for individuals with autism and their families.

# Future Ideas / Directions

## Missouri

Missouri Pilot (14)  
Early Diagnosis (19)  
Community Psychology (10)  
Crisis Care (15)  
Primary Care (450\*)  
Early Intervention (starts Dec 2019)  
Behavior Solutions (starts Dec 19)  
Family Advocates (starts Jan 20)  
Mental Health (starts Feb 20)

## ATN/AS/AIRP Supported

Replication Study (148)  
Transition to Adulthood (16+7) Navajo  
Nation (19)  
Alaska Native (15)  
East Africa (25)  
Center Dev. & Support (12) Caregiver  
Skills Training (10 [estimate])  
Clinical ECHO Autism (110 [estimate])

## Collaborative\*\*

Ummeed Center, Mumbai (40 [estimate])  
Uruguay (40 [estimate])  
MIND Institute  
Advocate Children's Kentucky  
University of Virginia  
University of Wyoming  
TEACCH, UNC  
University of Wisconsin

\* Unique mix of local, national and international participants

\*\* representative list only

## Future Ideas / Directions





ECHO Autism Collaborative

# ECHO Autism Collaborative



ECHO Autism Collaborative

- University of Alabama/Children's of Alabama
- University of Alaska (Alaskan Native)
- University of New Mexico (Navajo Nation)
- University of Alberta
- University of Kentucky
- Advocate Children's Hospital
- Children's Hospital of Los Angeles
- Mayo Clinic
- Seattle Children's Autism Center
- MIND Institute
- University of North Carolina – Chapel Hill (TEACCH)
- Gertude's Children's Hospital – Nairobi, Kenya
- Universidad de Republica – Montevideo, Uruguay
- UMMEED Child Development Center – Mumbai, India
- University of Wyoming
- Behavior Change Institute
- University of Virginia

# Thank you



ECHO Autism

# Join the Movement

- What do you need to join?
  - Internet
  - Forward facing-camera
  - Collaborative spirit and willingness to learn
- What's the catch?
  - There isn't one... it is no-cost opportunity to learn together about recognizing and caring for children with autism
- Learn more at [www.echoautism.org](http://www.echoautism.org)





ECHO Autism Collaborative

# Are you part of the ECHO?