

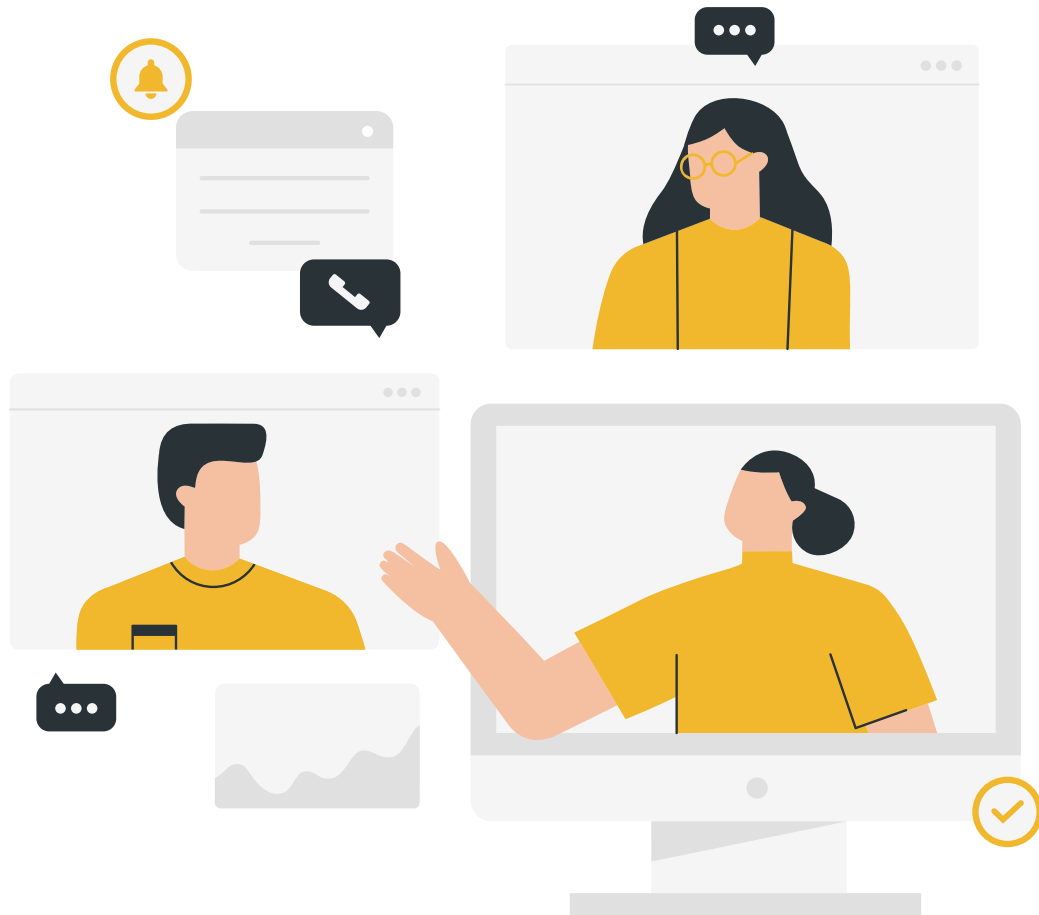


Missouri Telehealth Network
University of Missouri

2022 Annual Report

SHOW-ME ECHO

<https://showmeecho.org/>



Prepared by Darcy Becker, Sara Kasukurthy, Mary Beth Schneider, and Mel Warne-Griggs

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Directors' Welcome

In 2022, the Missouri Telehealth Network (MTN) and the Show-Me ECHO program celebrated our success and continued to refine and expand programming to reach even more Missourians. To date, we have reached nearly 9,000 learners in our Show-Me ECHO program. And nearly 3,000 organizations have benefited from ECHO sessions. Providing best practices and evidence-based information through Show-Me ECHO improves the quality of care, reduces the need for patient travel, and increases local knowledge. Patients in rural communities and underserved populations benefit directly, and indirectly this benefits all Missourians.

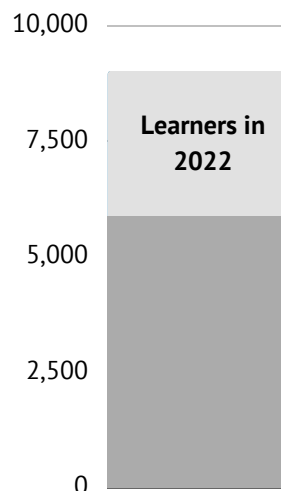
Several new ECHO programs were created in 2022 including: Building Healthy Communities; Alzheimer's, Dementia, Diagnosis & Management of Memory and Thinking Disorders; Disordered Eating & Eating Disorders; Foster Care in Primary Care; Rural Health Preceptor, and Suicide Prevention in Health Care. In developing each of these projects, Show-Me ECHO worked with stakeholders from around the state, found highly qualified hub team members, and came together to create a curriculum and a plan for engaging key constituents.

As our programming grows, so does the team of professionals that provides the operational backbone and support for ECHOs. MTN maintains a strong culture that includes creativity, fun, excellence, collaboration, and transparency. Fidelity to the ECHO model is important to us at Show-Me ECHO, and so we have expanded our team of clinical liaisons from two medical directors to a team of six interdisciplinary professionals who advise more than 40 hub teams on principles of adult learning and how to make the most of every ECHO session.

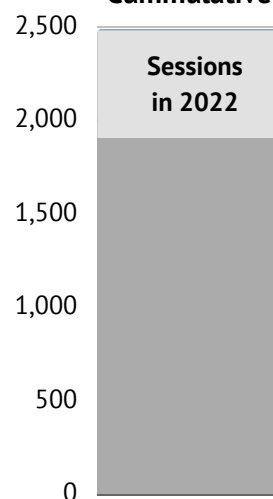
Missouri Telehealth Network launched two new projects that will continue for several years. First, a partnership with the Missouri Department of Social Services, MO HealthNet Division called Rural Citizen's Access to Telehealth (RCAT) will provide funding, education, and training opportunities to increase the use of telehealth. Second, the Missouri Department of Health and Senior Services, Women's Health Division has partnered with MTN to create a statewide teleSANE network, virtual SANE (Sexual Assault Nurse Examiner) training modules, and a SANE ECHO to increase the number of SANE trained nurses and increase survivor access to much needed services. (see page 8 for more information about SANE)

We thank you for your support of the Missouri Telehealth Network and Show-Me ECHO program. We look forward to hosting the Sixth Annual MTN Summit in September and hope to see you in Jefferson City for that event.

**Attendees,
Cummulative**



**Sessions,
Cummulative**

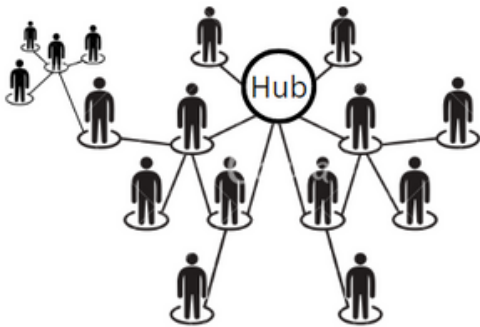


E. RACHEL MUTRUX
DIRECTOR

KAREN EDISON, MD
SENIOR MEDICAL DIRECTOR

KRISTIN SOHL, MD
MEDICAL DIRECTOR

Building a Learning Community



Based on a hub and spoke model, Show-Me ECHO aims to establish supportive networks of committed community members with shared interests. The hub is made up of a team of experts who share their knowledge and mentor individuals working in rural and underserved areas. Participants are the spokes bringing new knowledge into their local communities. ECHO participants often share what they learn with others in their community thereby spreading best practices even further.

Missouri Telehealth Network's (MTN) flagship program is Show-Me ECHO (Extension for Community Healthcare Outcomes). The program started in 2014 with a focus on improving the health of Missourians and the support of state officials.

Unlike telemedicine, which is limited to one patient and one provider at a time, or webinars, which lack individualized learning and flexible discussion topics; ECHO case-based sessions foster a collegial, supportive learning community where everyone learns how to address complex problems by working through challenges presented by participants.

Today, Show-Me ECHO continues to reach new clinicians and expand to new topics that increase patient access to exceptional care by a trusted professional in their own community. Show-Me ECHO boasts one of the largest ECHO programs in the US and reaches every Missouri County and the City of St. Louis.

"The University of Missouri's Show-Me ECHO is one of the most robust and successful replications of the ECHO model in the U.S."

Sanjeev Arora, MD, MACP, FACP, Director and Founder of Project ECHO, Distinguished and Regents' Professor of Medicine, University of New Mexico Health Sciences Center



PARTICIPANTS SAY...

403 survey respondents in October 2022

Learning about Resources 21%

It's great! I'm grateful to have these resources!

-- Dementia Participant

Access to Specialists 21%

Everyone is always well prepared, and the experts answer questions with such professionalism.

-- Diabetes Participant

Community of Learners 32%

This is a new experience for me, and continues to show me, we share and learn from and through others. Thank you.

-- Certified Peer Specialist Participant

HELPFUL ASPECTS OF ECHO

Informational Lectures 60%

I wish I could personally thank all of these presenters and participants.

-- COVID-19 Participant

Case Presentations 76%

The topics/case studies are real life and relatable!

Thank you!! Keep doing what you are doing!

-- Pediatric Weight Management Participant

Topic is Important 67%

I think this is a great place to learn a lot of suicide and treatment especially for those in private practice and beginning therapists.

-- Suicide Prevention Participant

Networking 24%

I really appreciate the wealth of knowledge coming from other professionals around the State.

-- Autism Behavior Solutions Participant

Relevant to my Work 65%

I want to compliment the members of the HUB team for their willingness to share their vast knowledge and expertise regarding all aspects of HIV Prevention and HIV Care. They are so very helpful to those of us still learning!

-- HIV Participant

WHY PARTICIPATE

Share Info with Others 11%

(I share) the ECHO with the appropriate physicians who could potentially benefit from the information being shared to better serve the patients in the community.

-- Child Psych Participant

To Help Those in My Care 44%

Thank you for doing these ECHOs to assist us in helping our clients navigate the health care system and community resources.

-- Community Health Worker Participant

History of Show-Me ECHO

8,999

UNIQUE LEARNERS SINCE 2014

Most are Missourians, however, learners also come from 49 other states and 31 countries.

2,937

ORGANIZATIONS

Learners have come together from many organizations since Show-Me ECHO began.

2,477

SESSIONS

Since the beginning of Show-Me ECHO.



ECHOs on this list were active as of 2022. See Appendix A for history of retired ECHOs.



Sustaining ECHO

Show-Me ECHO's first projects in 2014 were funded with grant dollars. There have been more than \$2.5 million grant dollars awarded to fund Show-Me ECHO projects over the years. Since 2015, Show-Me ECHO has also benefitted from state support. Missouri state officials and legislators recognize the impact of the ECHO model and choose to fund several of the ECHO programs each year through state appropriation. Additionally, in 2018, the Missouri Department of Social Services worked with each MO HealthNet managed care organization to implement sustained funding for Show-Me ECHO.

Without the ongoing support of these organizations, Show-Me ECHO would not be able to provide the interdisciplinary case-based learning collaboratives that impact so many Missourians.

**Sustained
support
allows
Show-Me
ECHO to
impact many
Missourians.**

Featured Collaborations



Show-Me ECHO collaborates with many organizations in order to improve the well-being of Missourians. By sharing resources and valuable expertise, we address health disparities by providing education and services that improve access to healthcare and other services. Our partnerships are critical to the success of MTN/Show-Me ECHO.

RURAL CITIZEN'S ACCESS TO TELEHEALTH (RCAT)

RCAT is a partnership between the Missouri Telehealth Network and the MO Department of Social Services, MO HealthNet Division. In 2023, we will:

- Identify and survey stakeholders to discuss barriers
- Provide telehealth education and training
- Provide technical assistance in project planning
- Provide funds for new telehealth programs that increase access for rural Missourians

JUSTICE FOR SURVIVORS TELESANE PROGRAM

The SANE (Sexual Assault Nurse Examiner) exam is a forensic examination completed by a medical professional in order to collect evidence and provide care to individuals who have been sexually assaulted. Missouri representatives recognized the need to expand the availability of these exams. MTN and the Missouri Department of Health and Senior Services, Women's Health Division will create a statewide teleSANE network, virtual SANE training modules, and a SANE ECHO to increase the number of SANE trained nurses and to increase survivor access to much needed services.

ECHOS PLANNED FOR 2023

NEW

Show-Me ECHO seeks to meet the needs of Missourians by consistently adding new ECHOs. These ECHOs will launch in 2023.

VAPING, TOBACCO, AND NICOTINE TREATMENT ECHO

One of the first new ECHOs scheduled to launch in 2023 is our Vaping, Tobacco, and Nicotine Treatment ECHO. In August of 2022, Governor Mike Parson announced \$2.5 million in state funding for tobacco cessation and smoking prevention efforts. This was a historic move, tripling the past amount invested in these efforts. Several of our Hub Team members from the upcoming ECHO attended the announcement ceremony and can be seen standing behind him in support of this grand initiative to save millions of dollars in future health care costs and save lives. Healthcare professionals, primary care clinicians, pediatricians, psychiatrists, behavioral health specialists, and school professionals are all included in the target audience for this ECHO. Participants in this ECHO will utilize best-practice strategies to assess individuals for vaping, tobacco, and nicotine use and exposure, increase their knowledge of behavioral counseling and pharmacotherapy, and gain valuable insights to increase quit attempts among identified populations. Additionally, this ECHO hopes to educate professionals so they can advocate for tobacco control policies and reduction in barriers to treatment at the school, healthcare system, local, state, and federal levels. This team's ultimate goal is to extend access to tobacco treatment clinicians across the state (and the nation) to achieve optimum and equitable health for all.

CONCUSSION CARE ECHO

With increasing concerns with head injuries and concussion frequency, in 2023 we will also launch our Concussion Care ECHO. With an emphasis on the importance of a multidisciplinary approach, physical therapists, occupational therapists, speech-language therapists, behavioral health professionals, athletic trainers, primary care clinicians, and other healthcare professionals who work in concussion care are all encouraged to join. This diverse team of experts and specialists in the field will prepare participants to identify appropriate multi-disciplinary referrals, increase utilization of appropriate care plans, improve utilization of objective assessments, and learn the skills necessary to counsel patients effectively through collaboration with other professionals. Confidence and efficiency are key to applying best-practices in concussion care, and that is exactly what this team hopes to accomplish through this ECHO.

Sharing Show-Me ECHO

PEER REVIEWED ARTICLES

Becevic, M., Warne-Griggs, M., Wallach, E., Edison, K., Mutrux, R., McElroy, J., Hsu, A., Shyu, C., Trotman, R., Hoffman, K. (2022). Community Case Study: The Role of Live-Interactive Learning Network in Addressing Community Wide Information Needs Through Show-Me COVID-19 ECHO. *Frontiers in Public Health*. DOI: 10.3389/fpubh.2022.913747

Gursahani, K., Char, D., Wilson, M.P., Poirier, R.F. (2022). Emergency Department Management of Suicidal Ideation: Challenges, Misperceptions, and Hope. *Mo Med.*; 119(5):437-443. PMID: 36337996; PMCID: PMC9616452.

Hollander, C. (2022). What is ECHO? Q and A's. *Greater St. Louis Dental Society's Dental Arch*, 93,2.

Hollander, C. (2022). Two MU Opportunities for CE: SHOW-ME ECHO, Missouri Dental Association Focus Magazine.

Montiel-Nava, C., Tregnago, M., Marshall, J., Sohl, K., Brewer Curran, A., Mahurin, M., Warne-Griggs, M., WHO CST Team, & Dixon, P. (2022). Implementing the WHO caregivers skills training program with caregivers of autistic children via telehealth in rural communities. *Frontiers in Psychiatry*, 29. DOI: <https://doi.org/10.3389/fpsyt.2022.909947>.

Sohl, K., Kilian, R., Brewer Curran, A., Mahurin, M., Nanclares-Nogués, V., Liu-Mayo, S., Salomon, C., Shannon, J., Taraman, S. (2022). Feasibility and Impact of Integrating an Artificial Intelligence-Based Diagnosis Aid for Autism into the Extension for Community Health Outcomes Autism Primary Care Model: Protocol for a Prospective Observational Study. *JMIR Res Protoc*. 19;11(7):e37576. doi: 10.2196/37576. PMID: 35852831; PMCID: PMC9346562.

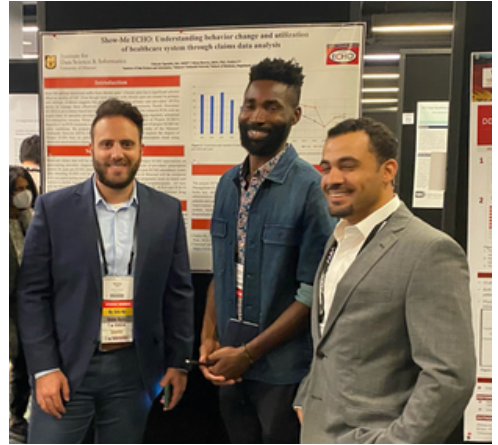
Vinson, A.H., Iannuzzi, D., Bennett, A., Butter, E.M., Curran, A.B., Hess, A., Hyman, S.L., Kelly, A., Murray, D.S., Nowinski, L., Zwaigenbaum, L., Sohl, K. (2022). Facilitator Reflections on Shared Expertise and Adaptive Leadership in ECHO Autism: Center Engagement. *J Contin Educ Health Prof*. Jan 1;42(1):e53-e59. doi: 10.1097/CEH.0000000000000395. PMID: 34609351.

Sharing Show-Me ECHO

PRESENTATIONS

More than 40 Show-Me ECHO hub members, staff and leaders made presentations featuring Show-Me ECHO and the benefits of the ECHO model. A sample of groups presented to include:

- American Academy of Pediatrics
- American College of Obstetricians and Gynecologists
- Advanced Practice Assessment & Skills Workshop
- Annual Missouri Public Administrators Conference
- Betty Jean Kerr People's Health Centers
- Cardinal Ritter Senior Services
- Caring for the Older Adult
- Dissemination and Implementation Rural Health Symposium
- HCC Network
- Health HIV
- Healthy Blue
- Kennett Public Schools
- MARC Head Start
- Missouri Academy of Family Physicians
- Missouri Association of County Developmental Disabilities Services
- Missouri Association of School Nurses
- Missouri Behavioral Health Conference
- Missouri Credentialing Board
- Missouri Department of Health and Senior Services
- Missouri Department of Mental Health
- Missouri Primary Care Association
- Missouri Rural Health Association
- Missouri Veterinary Medical Association
- Neighborhood Leadership Academy
- Project ECHO - New Mexico, India ECHO Leadership Team
- Research Ethics Training Institute
- Show-Me ECHO Summit
- SSM Health Cardinal Glennon Children's Hospital
- The Care Transformative Collaborative of Rhode Island



Celebrations

Karen Edison, MTN/Show-Me ECHO Sr. Medical Director, received the Wilma Bergfeld, MD Visionary and Leadership Award from the Women's Dermatological Association. The award recognizes trailblazers for women in dermatology.



Kristin Sohl, MTN/Show-Me ECHO Medical Director, received the Woman of the Year award from the Greater Missouri Leadership Foundation. The award recognizes prominent leaders in Missouri who demonstrate leadership, civic contributions and an ability to inspire and support others.



Olabode Ogundele, PhD Student, received the LEAD Fund Trainee Award from American Medical Informatics Association ®.



Reaching Missourians

Addressing topics of concern to Missourians

Since its inception in 2014, Show-Me ECHO has grown exponentially ending 2022 with 37 programs. Show-Me ECHO continues to address topics of importance to Missourians in clinical care, behavioral health, education, and community wellbeing.



Modeled after the University of New Mexico's unique system for educating primary care clinicians in specific disease states or conditions, MU's Show-Me ECHO program is one of only 18 US superhubs training others to create more ECHOs.

Participants interact with their peers and the expert hub team to share knowledge, support, recommendations and to provide feedback. ECHO learning is organized around an authentic (anonymized) case brought by a learner. ECHO hub teams are interdisciplinary and bring together unique perspectives to provide a holistic approach to challenges. All participants learn from each other as they consider available evidence and formulate recommendations. In this way, new knowledge is learned within the context of addressing local issues.

At no cost to participating sites or attendees, many learning sessions offer free continuing education credits. New Show-Me ECHOs continue to improve access to health care and other services, improves quality, and improve wellness across Missouri communities.

<https://hsc.unm.edu/echo/what-we-do/about-the-echo-model.html>

Hub Teams

Experts practice throughout the state

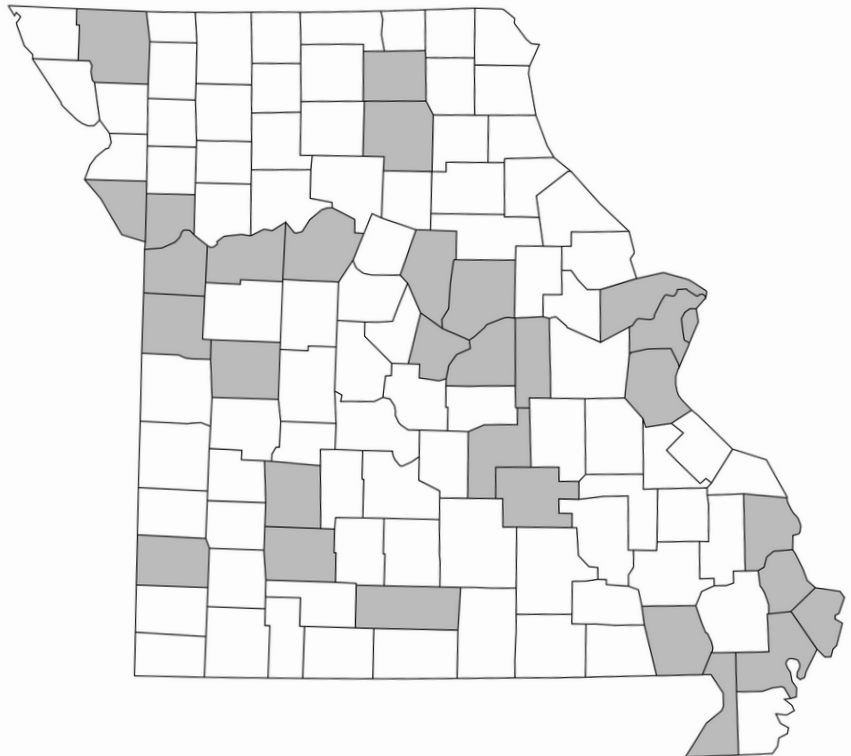
286 experts served as hub team members in 2022. They come from 30 different Missouri counties and the City of St. Louis.

286

Hub Team Members
served in 2021

30

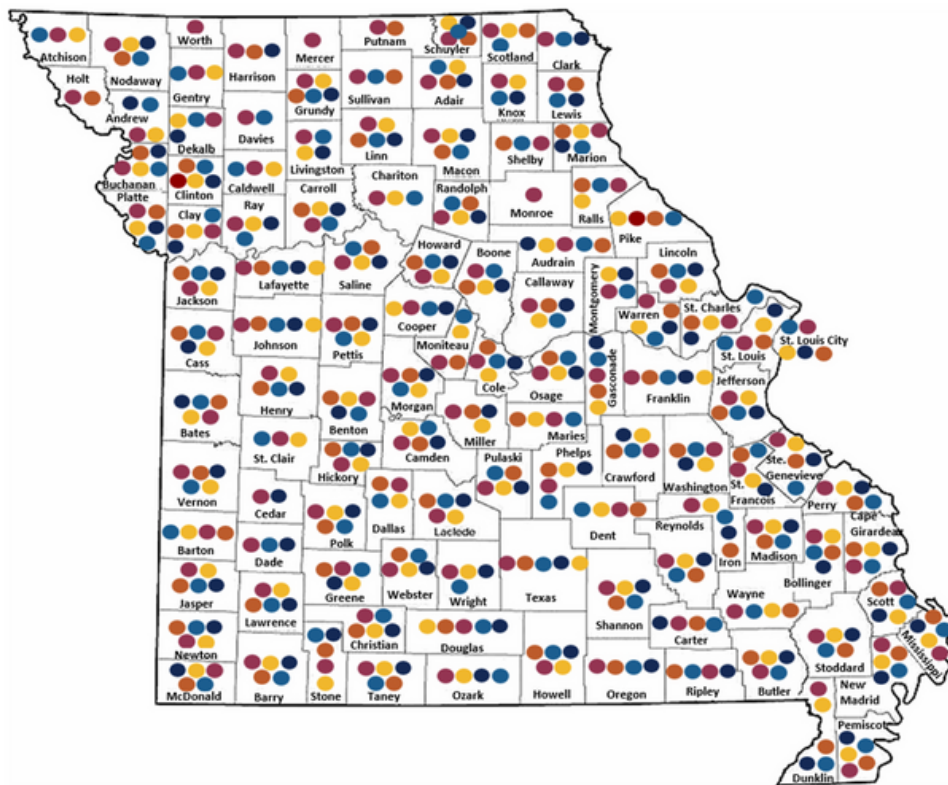
Counties
and the City of St. Louis



ECHO sessions are facilitated by a multidisciplinary team of specialists, called a hub team. The hub team consists of local and regional specialists, persons with lived experience, and subject matter experts. Show-Me ECHO strives to recruit hub team members that reflect the population served by the ECHO and from across the state.

Hub team members share their knowledge through didactic presentations and mentoring attendees who present de-identified cases through discussions, using a guided practice model. A commitment to an “all teach all learn” approach fosters learning by both hub team members and spokes. Through the ECHO model, hub team members gain a better understanding of the challenges participants and those they serve encounter in underserved areas.

Attendees' Counties since 2014



115*

Counties since
Show-Me ECHO
began

* Includes City of St. Louis

100%

of Missouri
counties have
benefitted

ADULT CLINICAL

- Adult Psych*
- Dementia & Alzheimer's*
- Dermatology
- Developmental Disabilities*
- Diabetes
- Disordered Eating and Eating Disorders*
- Endocrinology
- Foot Preservation
- Genetics/Genomics
- Healthcare Ethics
- Hepatitis C
- HIV
- Hypertension
- Kidney Disease
- Missouri Moms & Babies
- Opioid Use Disorder*
- Oral Health
- Pain Management*
- Rural Veterans Behavioral Health (RVBH)
- Suicide Prevention in Health Care*

CHILD CLINICAL

- Asthma
- Autism: Primary Care*
- Child Psych*
- High Risk OB
- Foster Care*
- Missouri Moms & Babies
- Mothers, Infants & NAS*
- Pediatric Sleep*
- Pediatric Weight Management*
- Show-Me Strong Kids*

COVID-19

- COVID-19 & Kids
- COVID-19
- Managing Hospital & Patients in a Pandemic
- PAC/LTC: Post-Acute & Long-Term Care

EDUCATION

- Autism: Behavior Solutions in Schools*
- Cultivating Positive Classroom Climate - High School*
- Head Start
- MTSS (Multi-Tier System of Supports)*
- Trauma Informed Schools*

COMMUNITY SUPPORT

- Building Healthy Communities
- Certified Peer Specialist*
- Community Health Worker*
- Rural Health Preceptors
- Telemedicine*
- Veterinary Education & Training

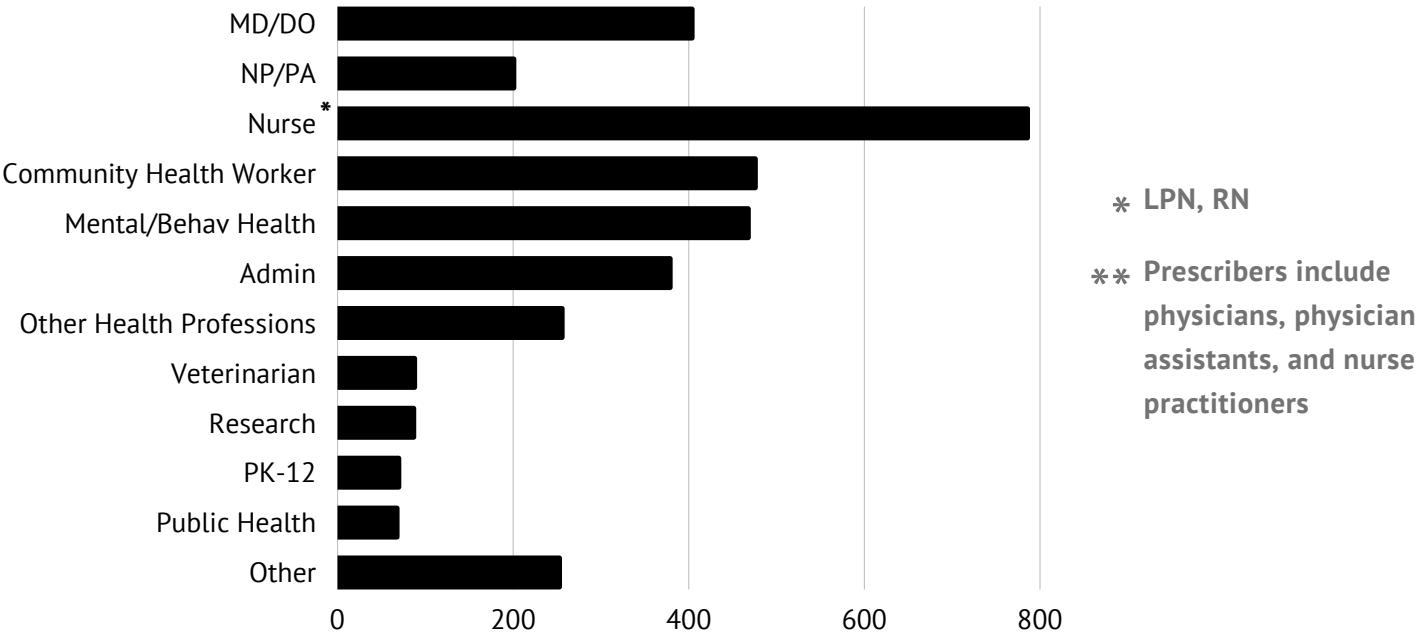
* Behavioral/Mental Health ECHOs

Attendee Professions 2022

609

Prescribers**

ECHO learning communities are interdisciplinary, with learners coming from many professions. In 2022, about 40% of participants were physicians, physician assistants, and nurses.



Attendee Organization Type 2022

886

All organizations

Healthcare

PK-12 Education

Mental & Behavioral Health

Higher Education

Other

Non-Profit



Promoting Child Well-being

Show-Me ECHO knows the importance of professional development and peer support to increase and maintain quality child wellness services. Just like many civic and state leaders across Missouri, Show-Me ECHO is committed to advancing the health and well-being of Missouri's children by accelerating improvements for kids across physical health, mental health, and education sectors.

Show-Me ECHO works with partners to ensure that all of Missouri's children are safe, healthy and engaged

Child-focused ECHOS

- Asthma
- Autism: Behavior Solutions in Schools
- Autism: Primary Care
- Child Psych
- Cultivating Positive Classroom Climate - High School
- Disordered Eating/Eating Disorders
- Foster Care
- Head Start
- Missouri Moms & Babies
- Mothers, Infants & NAS
- Pediatric Sleep
- Pediatric Weight Management
- Show-Me Strong Kids
- Trauma Informed Schools



Child Wellbeing

A focus for our state and Show-Me ECHO

Child health and well-being is a central focus in the state of Missouri to ensure that all children are safe, healthy and engaged. Show-Me ECHO supports child-serving professionals to achieve their goals like:

- improved healthcare for children in the foster care system
- addressing challenges in perinatal care
- improved mental health access
- increased cross community partnerships
- maximizing asthma treatment and outcomes
- supporting teachers and school professionals in serving special needs populations



- expediting access to well equipped primary care clinicians to identify, diagnose and serve young children on the autism spectrum
- prevention, early identification and care of all individuals with disordered eating and eating disorders
- more effectively and confidently treat children and adolescents with obesity
- identifying and managing sleep-related complaints and primary sleep disorders

PARTICIPANTS SAY...



239 Sessions

"I am not a medical professional, but as Children's Division (CD) staff I am able to provide guidance to our staff about what is going on in the medical world. This can help CD staff understand the process when a child is born exposed."

- Mothers, Infants & NAS Participant



97 Counties

"I share Head Start ECHO with many colleagues and partners. It is a valued resource for those that have attended a meeting."

- Head Start Participant



1346 Attendees

"I feel that I have better communication techniques with parents as a result of the ECHO and share these techniques with colleagues."

-Pediatric Weight Management



6800 Instructional Hours

"My biggest change has been to make an effort to praise and choose my words wisely when redirecting. Not giving an ultimatum right off the bat but looking for positive changes as the behavior ends."

- Cultivating Positive Classroom Climate (High School) Participant

Our Clinical Liaison Team



Lea Brandt, Ph.D.
Occupational Therapist



Karen Edison, M.D.
Dermatologist

Fidelity to the ECHO model is important to us at Show-Me ECHO. In 2022, we were very excited to expand our team of clinical liaisons from two medical directors, to a team of six interdisciplinary professionals.



Kunal Malholtra, M.D.
Nephrologist



Veronica Sievert, M.D.
Family Medicine M.D.

These clinicians advise more than 40 hub teams on principles of adult learning and how to make the most of every ECHO session.



Kristin Sohl, M.D.
Pediatrician



Lisa Wilson, N.P.
Adult Gerontology

Outcomes

POSITIVE OUTCOMES FOR PATIENTS



DERMATOLOGY ECHO
EXPANDS ACCESS TO
DERMATOLOGIC
EXPERTISE FOR
MISSOURI'S
UNDERSERVED
POPULATIONS.

From November 2015 to June 2021, primary care clinicians who practice in rural and underserved areas presented 524 cases during the Dermatology ECHO. An analysis shows that less than 40% of all of the original diagnoses and 16% of the original treatment recommendations proposed by participants were fully concordant with an expert panel.

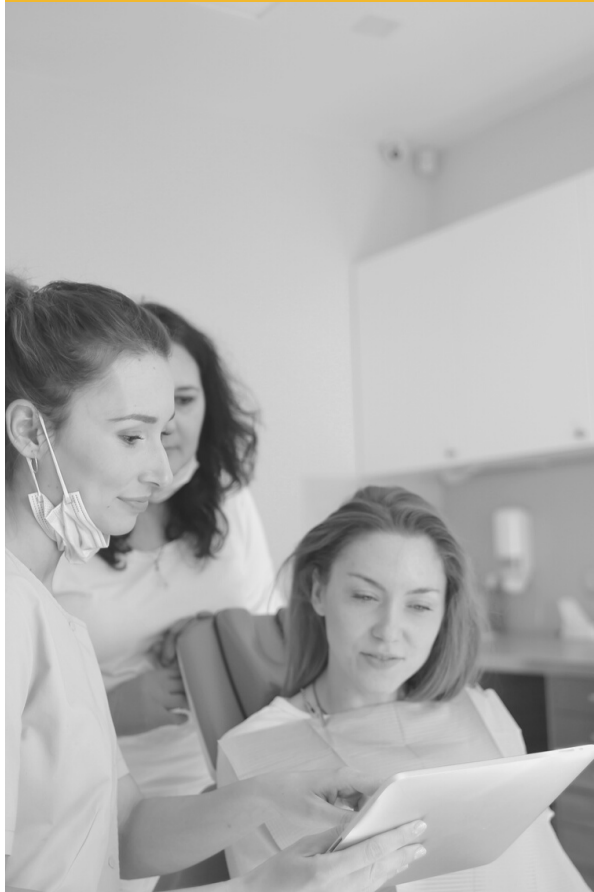
Though diagnostic and treatment accuracy was low, the patients presented in Dermatology ECHO ultimately received timely and correct diagnosis and treatment. In addition, others learn by listening to the case and asking their own questions and making recommendations. Expert hub team members have noticed that long-standing participants tend to present progressively more complex cases which suggests that they are confidently handling the less complex cases on their own.

"I depended on Derm ECHO to handle difficult cases without need for patient travel/expense." - Derm ECHO Participant

"It has given me information and confidence to treat skin disorders. I learned new things, as well as having some current practices confirmed as correct." - Derm ECHO Participant

Presenting cases at ECHO has helped me diagnose and treat difficult cases! I so appreciate it! - Derm ECHO Participant

MOVING KNOWLEDGE NOT PEOPLE

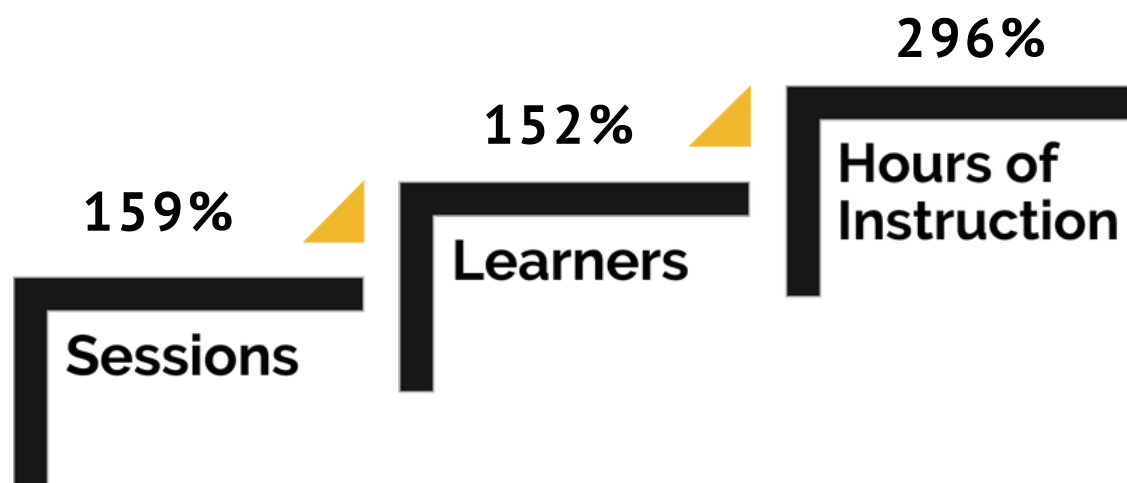


Access to the right care, in the right place at the right time, depends on availability of community resources and expertise. ECHO uses technology to leverage scarce resources and to reduce barriers to participating in continuing education and professional development. Participants build expertise that can be used locally thereby reducing the need for people to travel outside of their community.

ECHO principles are consistent with a rich literature on adult learning and ECHOs are more effective than traditional continuing education strategies. Because ECHO uses videoconferencing, participants have easy access to education from their professional setting or home. Ease in access lowers the costs to participate. The ECHO model moves knowledge and not people.

(Arora S, Kalishman SG, Thornton KA, et al. Project ECHO: A telementoring network model for continuing professional development. J Contin Educ Health Prof 2017; 37: 239–244.)

5-Year Percentage Increase (2018 to 2022)

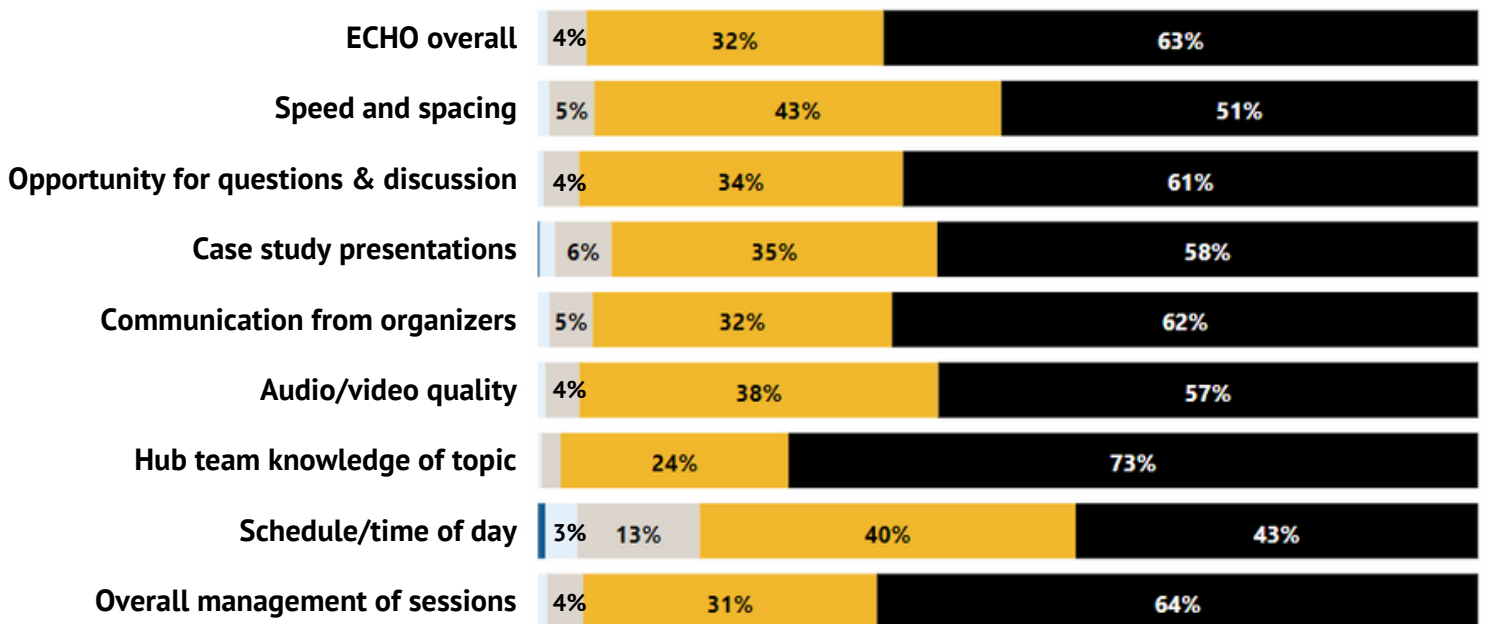


SATISFACTION

HOW WOULD YOU RATE THE FOLLOWING ASPECTS OF ECHO?

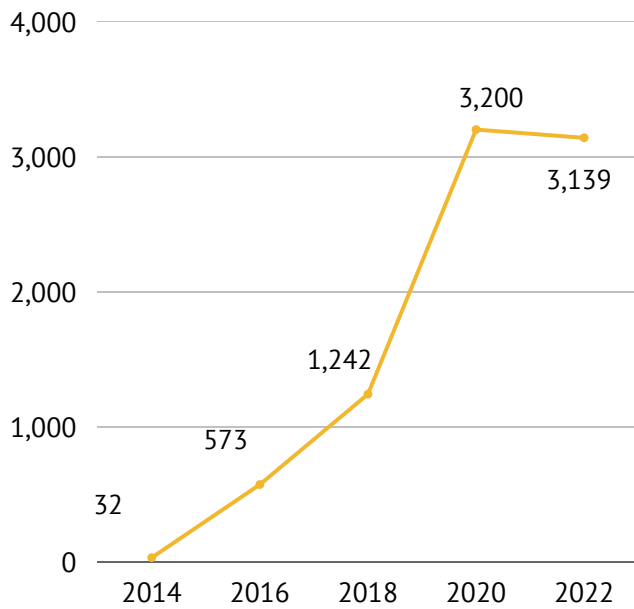
Between 499-503 attendees answered each of the parts of this question. A five-point Likert scale was used. The possible responses were: poor, fair, average, good, or excellent. The percentages and means for each subsection are slightly higher in the good/excellent categories as compared to May 2022. Most participants rated logistics, technical, and content quality as good to excellent.

● Poor ● Fair ● Average ● Good ● Excellent

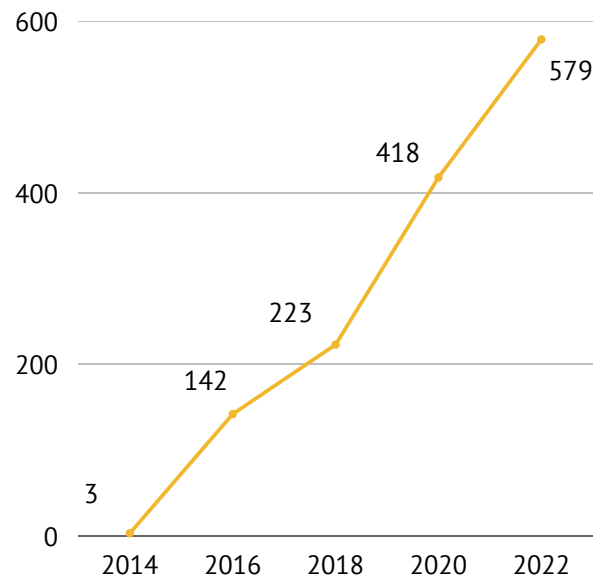


* percentages have been rounded, so may not total 100%

UNIQUE LEARNERS



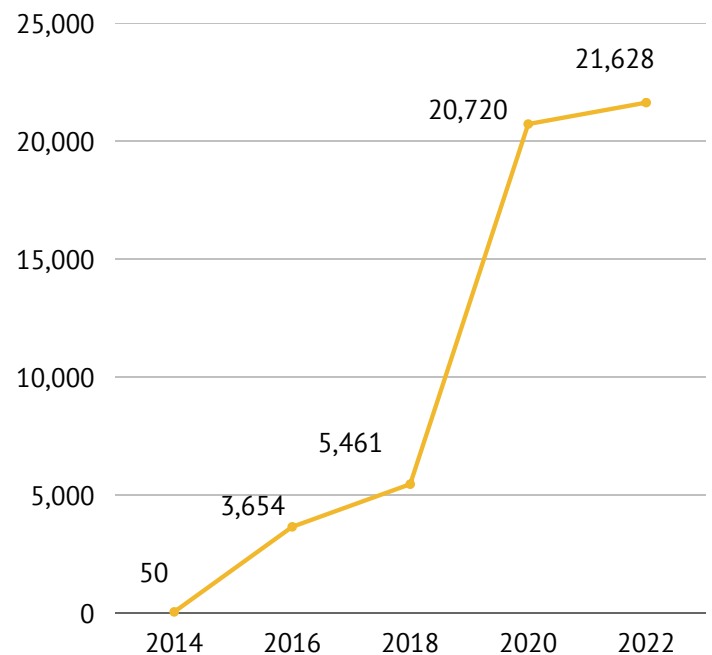
NUMBER OF SESSIONS



Show-Me ECHO sessions, hours of instruction, and number of unique learners have increased steadily since 2014.

"All teach, all learn"
~ECHO Model Credo

HOURS OF INSTRUCTION



Learning in 2022

Interest in Show-Me ECHO remained strong in 2022. Show-Me ECHO is changing the way we share information and learn from each other in Missouri and beyond.

3,139
UNIQUE LEARNERS

579
SHOW-ME ECHO SESSIONS

30
AVERAGE ATTENDEES PER
SESSION

Including COVID-19 sessions which are larger than the typical ECHO.

21,628
PERSON-HOURS OF
INSTRUCTION

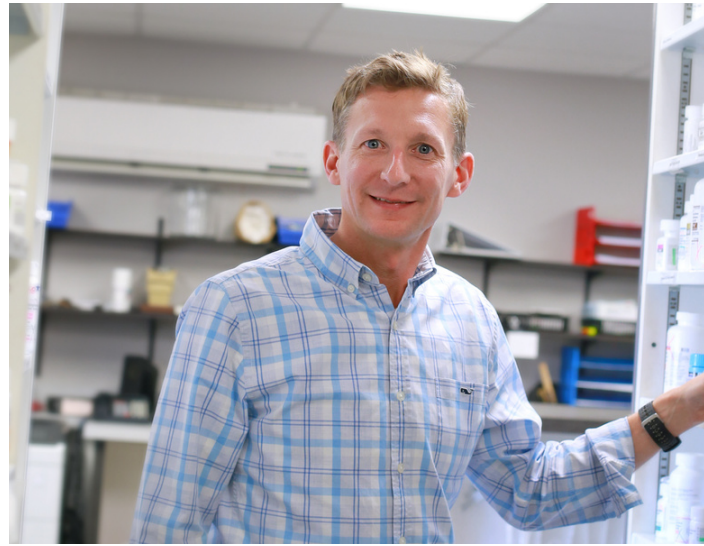
(Total Hours Attended by all Learners, with an average of 8 hours per learner)

2,019
OFFERED HOURS OF
CONTINUING MEDICAL
EDUCATION



HUB MEMBER SPOTLIGHT

- **ECHO helps spread best practices to rural areas**
- **Participants' patients are learning to better manage their diabetes**



Dr. Tripp Logan did not know anything about ECHO when he was asked to serve as an expert for the Show-Me ECHO Diabetes team of experts. But as he learned about the collaborative environment, he quickly realized the value of including pharmacists on the team—“If pharmacists feel like they’re in a silo, then that also means that the providers view the pharmacists [that same way, so] they’re not talking to them either.”

As an independent community pharmacist in a rural area, working on multidisciplinary teams was extremely appealing. In what Logan describes as a “really cool environment,” a diverse group of professionals can put aside any professional hierarchies, and work as a team in an all teach, all learn model. “It’s just amazing.”

Dr. Logan works in southeast Missouri, an area with a high incidence of diabetes. He noted that when the Diabetes ECHO first started, most of the community pharmacies didn’t use continuous glucose monitoring (CGM); they were still primarily using finger prick methods. CGM has been proven to improve health outcomes, lower costs, and help achieve higher quality of life. Dr. Logan reports that more local pharmacies have started using CGM and there has been expanding coverage for CGM.

“It’s not fast, but I would attribute every bit of that to the ECHO,” beamed Logan. He explains that the Diabetes ECHO opened clinicians’ eyes to how they could work with pharmacists locally to ensure proper training. Some reps have even started visiting local areas to facilitate education, which wasn’t really happening before the ECHO.

This ECHO has also opened various opportunities for clinician-pharmacist conversations. Logan shared a story about one patient who was hospitalized multiple times because of low blood sugar levels, but after receiving guidance from the ECHO team, “...we were able to onboard her with a continuous glucose monitor [and now] she’s responding better, and we think it’s probably kept her out of the hospital as well.” This new knowledge has changed her approach to how she manages her own care. In Logan’s opinion, “It was all because of that ECHO.”

Logan states that hearing more about various professional perspectives (dietitian, community health worker, nephrology, endocrinology, primary care, rural health clinic, etc.) has allowed for a shared systematic approach. For Logan, ECHO has revealed that “We’re really all in this together.”



93.5% of learners say that they are making changes to their practice based on participation in Show-Me ECHO programs.

CHANGES IN PRACTICE

- **Improved treatment and diagnosis**
- **Increased confidence**
- **Sharing information with others**

These are some examples of changes implemented by participants:

- I have learned how important spirometry is to teaching families about asthma management. I will encourage spirometry and aero chambers at all times. - Asthma Participant
- This ECHO has helped me be more knowledgeable about medications, as well as better collaboration of care. - Child Psych Participant
- We have implemented protocols to incorporate medication reviews and collaboration with pharmacists and physicians to ensure clients are supported effectively, and medication use is limited but effective and with the fewest side effects/concerns. - Developmental Disabilities Participant
- I have used the knowledge I have gained from the ECHOs to build confidence when assessing and providing education to patients and coworkers. - Diabetes Participant
- I treat Hep C and have gotten a couple other providers to consider doing so as well. - Hep C Participant

Cases

2022

429

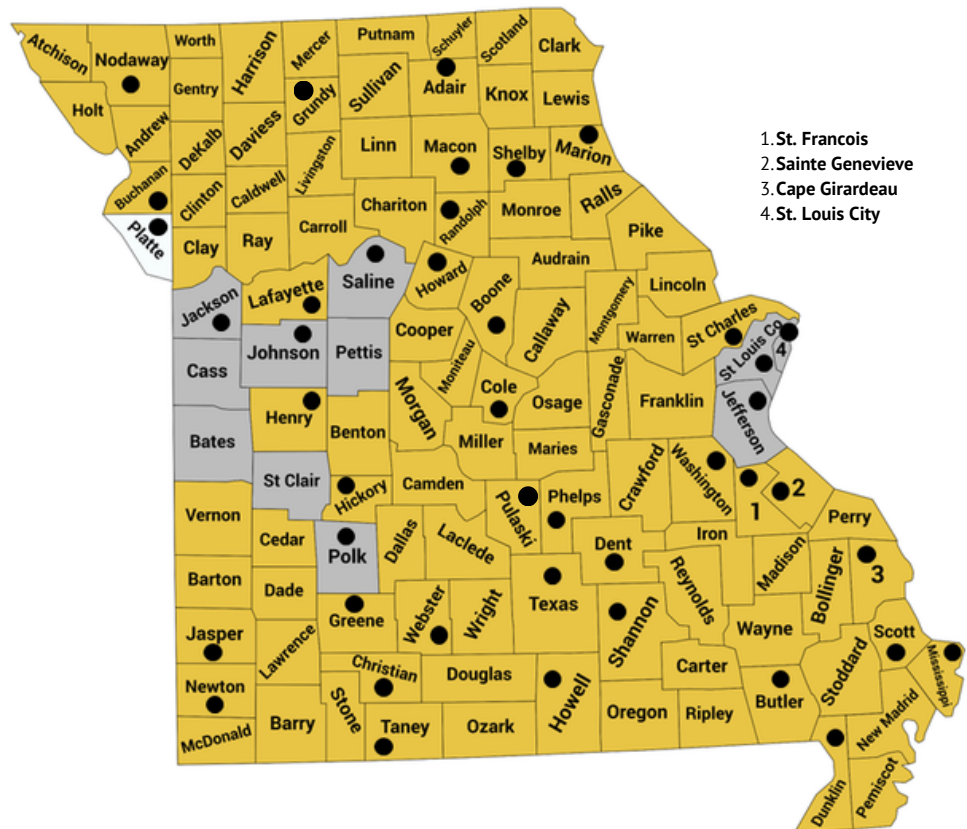
Cases discussed
across all ECHOs

99%

of cases were from
**Health Professions
Shortage Areas**

Health Professional Shortage
Area: Primary Care

- Whole County
- None of County
- Part of the County
- Counties with one or more cases



The presentation of patient/client cases within ECHOs provides authentic and actionable learning. ECHO attendees have the opportunity to present a de-identified case for individuals with a diagnosis and/or management they find challenging. Case presenters learn from other attendees and receive mentoring from the expert hub team. Attendees can then apply what they learn to help the patient from the case as well as similar patients in the clinician's practice.

Ninety-eight percent of cases presented in 2022 were from participants practicing in a primary care health professions shortage area*. Some of these patients might have forgone treatment if they could not receive care through their primary care clinician. Thus, these cases increase access to specialty care for hundreds of Missourians.

* (<https://www.ruralhealthinfo.org/charts/5?state=MO>)



97% of learners that have presented a case report a positive experience.

PRESENTING A CASE

- **Good feedback**
- **Valuable experience**
- **Helpful to have access to expertise**
- **Educational, collegial**

These are some examples of comments made by learners:

- It was very helpful to get answers for questions on a case for a patient of mine, I learned so much and it was so relevant to my work! - Autism Primary Care Participant
- This has been very helpful for managing the patients I have presented. I have also learned things I can apply to other patients. - Pain Management Participant
- It's helpful/valuable to have the opinions of multi-disciplinary team members to provide expertise and advice. - HIV Participant
- It was wonderful to get collaborative feedback and ideas. I feel like I'm part of a great family network and look forward to my Echo meeting. - Certified Peer Support Participant
- Great recommendations from the team along with supportive feedback. A huge confidence builder when working with complex case. - Suicide Prevention Participant

Appendices



A — Retired ECHOs

ECHOs that ended prior to 2022.



B — Glossary

Terms related to Show-Me ECHO and the ECHO model.



C — Hub Teams Members

List of 2022 Hub teams members and their organizations by ECHO.



D — Learner Survey

Details about the October 2022 participant survey.



E — Notes

Details informing the annual report.

Retired ECHOs

ECHO	Start	End
Endocrinology (see Diabetes)	2015	2017 reboot 2020
Genetics/Genomics	2019	2019
Healthcare Ethics	2017	2019
Rural Veterans Behavioral Health (RVBH)	2018	2019
NAS (see Mother, Infants, & NAS)	2019	reboot 2020
CROWN - High Risk OB (Rural) (see Missouri Moms & Babies)	2019	reboot 2020
HOPE - High Risk OB (Urban) (see Missouri Moms & Babies)	2019	reboot 2020
MTSS (Multi-Tier System of Supports)	2018	2020
SEMO Diabetes	2019	2020
Urban Dermatology	2020	2020
Managing Hospital & Patients in a Pandemic	2020	2021
COVID-19 & Kids (see Show-Me Strong Kids)	2020	reboot 2022

Glossary

Attendee (also spoke) = Individual attending ECHO to learn and be mentored in a condition

Case = Presentation and discussion of a challenge encountered by an ECHO learner in the course of their interaction with patients/clients, all identifying information having been removed

Clinical ECHO = An ECHO focusing on a medical condition. These ECHOs are designed to allow Primary Care Clinicians to treat their patients without specialist referrals.

Community ECHO = An ECHO focusing on non-medical community concerns, representing an extension of the ECHO model. These ECHOs may focus on health-related concerns, but their target audience is not typically Primary Care Clinicians.

Coordinator = An MTN staff member whose role is to help the hub team run the ECHO by handling all administrative matters

COVID ECHO = An ECHO focusing on COVID-related medical and/or community concerns

Didactic = Short (15-minute) lecture on a topic relevant to the ECHO

ECHO = Extension for Community Healthcare Outcomes

ECHO model = Through innovative telementoring, the ECHO model uses a hub-and-spoke knowledge-sharing approach where expert teams lead virtual clinics, amplifying the capacity for clinicians to deliver best-in-practice care to the underserved in their own communities. (<https://hsc.unm.edu/echo/>)

Facilitator (also hub team member) = Member of a hub team

Hours of instruction or instructional hours =
(Total learners) × length of session (usually 1 hour)

Hub team = Carefully selected team of content and mentoring experts who devise didactic lectures and facilitate an ECHO

Learners = Combination of attendees (spokes) and facilitators (hub team members)

Glossary

MTN = Missouri Telehealth Network

Organization = The place of employment of an ECHO learner. Note that different clinic locations counts as different organizations.

Primary Care Clinician (PCC) = A health care practitioner who sees people that have common medical problems (<https://medlineplus.gov/medlineplus.html>). In this report, we define PCPs as:

- | | |
|------------------------|---------------------------------|
| • Physicians | Who practice in the areas of: |
| • Nurse Practitioners | • Family and Community Medicine |
| • Physician Assistants | • Pediatrics |
| | • Geriatrics |
| | • Internal Medicine |
| | • Obstetrics and Gynecology |

Session = One instance (between an hour and an hour and a half) of a virtual discussion around the ECHO topic. Show-Me ECHO sessions occur weekly, bi-monthly, or monthly depending on the ECHO topic

Session attendance = Number of individuals present during an ECHO session

Show-Me ECHO = The ECHO programs administered by MTN in the state of Missouri

Spoke (also attendee) = Individual attending ECHO to learn and be mentored by facilitators

Total attendees = Sum across all sessions of the number of attendees present (an attendee present for two sessions would be counted twice, for three sessions, thrice, etc.)

Total facilitators = Sum across all sessions of the number of facilitators present (a facilitator present for two sessions would be counted twice, for three sessions, thrice, etc.)

Total learners = Total facilitators + Total attendees = Sum across sessions of the session attendance

Unique attendees = Count of individual attendees participating in any session during the reporting year (counted once regardless of how many sessions attended)

Unique facilitators = Count of individual facilitators participating in any session during the reporting year (counted once regardless of how many sessions attended)

Unique learners = Count of individual learners participating in any session during the reporting year (counted once regardless of how many sessions attended)

Hub Team Members Serving in 2022

ADULT PSYCH

Amanda Kingston - University of Missouri
 Angeline Stanislaus - Missouri Department of Mental Health
 Kimberly O'Leary - University of Missouri - School of Health Professions
 Mirna Herrera - University Health
 Pappa Ehimare - Compass Health Network
 Ravdeep Khanuja - Family Counseling Center
 Roger Sommi - University of Missouri - Kansas City School of Pharmacy
 Shawn McDaniel - University Health

ASTHMA

Benjamin Francisco - University of Missouri - Department of Child Health
 Bernard Eskridge - University of Missouri - South Providence Pediatrics
 Claudia Preuschoff - Poplar Bluff Pediatric Associates
 John Kraemer - Southeast Missouri State University
 John Spivey - Mercy Clinic - Children's Respiratory & Sleep Medicine
 Michelle Dickens - CoxHealth - Ferrell-Duncan Clinic
 Paul Foreman - University of Missouri - Department of Child Health
 Shelley Cooper - Diversity Telehealth, LLC
 Sherri Homan - University of Missouri - Department of Child Health
 Tammy Rood - University of Missouri - Department of Child Health
 Tracy Godfrey - Access Family Care

ASTHMA CARE ACCELERATOR

Benjamin Francisco - University of Missouri - Department of Child Health
 Bernard Eskridge - University of Missouri - South Providence Pediatrics
 Claudia Preuschoff - Poplar Bluff Pediatric Associates
 John Spivey - Mercy Clinic - Children's Respiratory & Sleep Medicine
 Paul Foreman - University of Missouri - Department of Child Health
 Paul Miles - University of Missouri
 Tammy Rood - University of Missouri - Department of Child Health
 Tracy Godfrey - Access Family Care

ASTHMA CARE & EDUCATION

Benjamin Francisco - University of Missouri - Department of Child Health
 Deb Cook - Kennett Public Schools
 Elizabeth Friedman - Children's Mercy Hospital
 John Kraemer - Southeast Missouri State University
 Michelle Dickens - CoxHealth - Ferrell-Duncan Clinic
 Paul Foreman - University of Missouri - Department of Child Health
 Rebecca Brown - Asthma Ready Communities
 Shelley Cooper - Diversity Telehealth, LLC
 Sherri Homan - University of Missouri - Department of Child Health
 Tammy Rood - University of Missouri - Department of Child Health
 Tracy Godfrey - Access Family Care

Hub Team Members

AUTISM: BEHAVIOR SOLUTIONS IN SCHOOLS

Amber Lashley - University of Missouri - Women's & Children's Hospital
 Amy Longenecker - Independent
 Cy Nadler - Children's Mercy Hospital
 John Mantovani - Mercy Kids Autism Center
 Kayleigh Fogle - Easterseals Midwest
 Marjorie Cole - Missouri Department of Health & Senior Services

AUTISM: PRIMARY CARE

Alicia Curran - University of Missouri - Department of Child Health
 Kristin Sohl - University of Missouri - Department of Child Health
 Melinda Odum - University of Missouri - Department of Child Health
 Rachel Brown - University of Kansas School of Medicine
 Sheila Chapman - University of Missouri - Children's Hospital
 Valeria Nanclares - University of Missouri Health System

BUILDING HEALTHY COMMUNITIES

Jeremy Milarsky - University of Missouri - Center for Health Policy
 Rachel Buenemann - University of Missouri Extension
 Sarah Hultine Massengale - University of Missouri Extension
 Sawiyyah "Chiquita" Chanay - University of Missouri Extension
 Shannon Canfield - University of Missouri
 Sherry Lea - Council for a Healthy Dent County
 Tracy Greever-Rice - University of Missouri - Center for Health Policy

CERTIFIED PEER SPECIALIST

Lori Franklin - Missouri Department of Mental Health
 Michael Eanes - Connections to Success
 Mirna Herrera - University Health
 Sarah Earll - DBSA St. Louis Empowerment Center
 Scott Breedlove - Missouri Credentialing Board
 Sheila Guinn-Peters - Compass Health Network
 Sheila Mihalick - DBSA St. Louis Empowerment Center

CHILD PSYCH

Arpit Aggarwal - Missouri Psychiatric Center
 Austin Campbell - University of Missouri Health System
 Garima Singh - Burrell Behavioral Health
 Laine Young Walker - Missouri Psychiatric Center
 Sara Wilson - Burrell Behavioral Health
 Suzanne Taggart - Compass Health Network
 Tracy Stroud - University of Missouri - Thompson Center

Hub Team Members

COMMUNITY HEALTH WORKER

Amy Summers - Northeast Missouri Health Council
 Jill Taylor - Family Care Health Centers
 Melanie Calhoun - Betty Jean Kerr People's Health Centers
 Michael Lawrence - Family Care Health Centers
 Nick Butler - University of Missouri - Center for Health Policy
 Payree Short - Ozarks Technical Community College
 Suzanne Smith - Health Care Collaborative of Rural Missouri
 Terrico Johnson - Missouri Bootheel Regional Consortium

COVID-19

Christelle Ilboudo - Children's Mercy Hospital
 Christopher Sampson - University of Missouri Health System
 George Turabelidze - Missouri Department of Health & Senior Services
 Gregory Storch - Washington University School of Medicine
 Hariharan Regunath - University of Missouri Health System
 Hilary Babcock - Washington University School of Medicine
 Jason Burnham - Washington University School of Medicine
 Jessica Stultz - Missouri Hospital Association
 Lea Brandt - University of Missouri Health System
 Robin Trotman - CoxHealth - Infectious Diseases Specialty Clinic
 Sarah Boyd - Saint Luke's Health System
 Taylor Nelson - University of Missouri Health System
 Tim Shryack - Missouri Ozarks Community Health Center

COVID-19 & KIDS/SHOW-ME STRONG KIDS

Amruta Padhye - University of Missouri - Department of Child Health
 Christelle Ilboudo - Children's Mercy Hospital
 Elizabeth Friedman - Children's Mercy Hospital
 Jason Newland - St. Louis Children's Hospital
 Jennifer Blacksmith - Northeast Missouri Health Council
 Jennifer Goldman - Children's Mercy Hospital
 Jennifer Schuster - Children's Mercy Hospital
 Kelsey Thompson - American Academy of Pediatrics - Missouri Chapter
 Kristin Sohl - University of Missouri - Department of Child Health
 Luke Gard - Children's Mercy Hospital
 Marjorie Cole - Missouri Department of Health & Senior Services
 Maya Moody - University of Missouri - Department of Child Health
 Meelie Bordoloi - University of Missouri - Department of Psychiatry

Hub Team Members

CULTIVATING POSITIVE CLASSROOM CLIMATE - HIGH SCHOOL

Carolyn Barber - University of Missouri - Kansas City
 Christi Bergin - University of Missouri - College of Education
 Dan Gordon - Northwest Missouri State University
 Darrion Cockrell - Lindbergh Schools
 Jennifer Foster - University of Missouri - eMINTS National Center
 Lindsay Brockmeier - University of Missouri - College of Education

DEMENTIA & ALZHEIMER'S

Andrea Denny - Washington University School of Medicine
 Jennifer Phillips - Washington University - Knight Alzheimer Disease Research Center
 Joel Shenker - University of Missouri Health System
 Lenise Cummings-Vaughn - Washington University School of Medicine
 Sara Hill - CoxHealth
 Steven Stoner - University of Missouri - Kansas City School of Pharmacy
 Tim Holden - Washington University School of Medicine

DERMATOLOGY

Allison Sindler - Missouri Delta Dermatology
 Jon Dyer - University of Missouri - Department of Dermatology
 Kari Martin - University of Missouri - Department of Dermatology
 Kathleen Long - University of Missouri - Department of Dermatology
 Kristen Fernandez - University of Missouri - Department of Dermatology
 Linda Landry - University of Missouri Health System

DEVELOPMENTAL DISABILITIES

Dennis "Buzz" Bledsoe - Bledsoe Professional Services
 Jessica Helling - University Health - Behavioral Health
 Joshua Wood - Fulton State Hospital
 Laura Hanneke - Pathways to Independence
 Melissa Weber - Best Abilities
 Preston Howerton - Howerton Integrated Medical Clinic
 Steven Stoner - University of Missouri - Kansas City School of Pharmacy
 Theresa Roberts - Missouri Department of Mental Health

Hub Team Members

DIABETES

Betty Drees - University of Missouri - Kansas City School of Medicine
 Brandon Barthel - University of Missouri - Kansas City
 Carol Recklein - Barnes-Jewish Hospital
 Kunal Malhotra - University of Missouri - Nephrology Department
 Sarah Wood - University of Missouri Extension
 Steven Douglas - Ferguson Medical Group
 Tripp Logan - Lands & Medical Arts Pharmacies
 Uzma Khan - Cosmopolitan International Diabetes & Endocrinology Center
 Waqar Salam - University of Missouri

DISORDERED EATING & EATING DISORDERS

Amy Beck - Children's Mercy Hospital
 Beth Harrell - Beth Harrell, RD
 Beth Monson - University of Missouri Extension
 Beth Shoyer - University of Missouri Counseling Center
 Caroline Rudnick - McCallum Place Eating Disorder Center
 Ginger Meyer - University of Missouri Health System
 Jenny Copeland - Reconnect Eating Disorders Clinic at Ozark Center
 Melissa Lawson - University of Missouri - Department of Child Health
 Rebekah Freese - St. Louis Behavioral Medicine Institute
 Stephanie Bagby-Stone - University of Missouri Health System

FOOT PRESERVATION

Collin Steenbergen - HiTek Limb & Brace
 Dima Dandachi - University of Missouri Health System
 Keith Beauchamp - Family Foot Clinic
 Kyle Schweser - University of Missouri Health System
 Michael Gardner - University of Missouri - Endocrinology Department
 Naveen Balasundaram - University of Missouri Health System
 Parvin Behrouzi - Missouri Orthopaedic Institute

FOSTER CARE

Bill Prince - Greene County Juvenile Office
 Christina Barnett - Missouri Department of Social Services
 Claire Hickey - Children's Mercy Hospital
 Emily Killough - Children's Mercy Hospital
 Julia Thompson - Children's Mercy Hospital
 Laine Young Walker - Missouri Psychiatric Center
 Lori Ross - Foster Adopt Connect
 Maya Moody - University of Missouri - Department of Child Health

Hub Team Members

HEAD START

Lynette Fowler - Mid-Area Regional Council Head Start
 Nathan Beucke - University Physicians - South Providence Pediatrics
 Rhodanne Schiller - Michael Schiller Consulting
 Tammie Benton - Jefferson Franklin Community Action Corporation
 Tina Bernskoetter - Missouri Head Start Association
 Tracy Stroud - University of Missouri - Thompson Center
 Vicki Davolt - University of Missouri Health System

HEPATITIS C

Bruce Bacon - Independent
 Eyad Alsabbagh - Saint Louis University Hospital
 Janice Davis - Missouri Digestive Health Center
 Joshua Moore - MO HealthNet Division - Department of Social Services
 Rachel Melson - Swope Health Services
 Tiffany Sanford-Martens - University Physicians - South Providence Psychiatry
 Tressa Aholt - University of Missouri Health System

HIV

Blair Thedinger - KC Care Health Center
 Dima Dandachi - University of Missouri Health System
 Kalisha Dixon - AIDS Project of the Ozarks
 Katie Scott - AIDS Project of the Ozarks
 LaTrischa Miles - KC Care Health Center
 Mark Sawkin - KC Care Health Center & University of Missouri - Kansas City
 Phyllis Ballard - Washington University Pediatric Infectious Diseases

HYPERTENSION

Claire Walsh - YMCA of Greater Kansas City
 Garth Graham - Saint Luke's Hospital of Kansas City
 Jessica Laughlin - University Health
 Jignesh Shah - University Health
 Joey Lightner - University of Missouri - Kansas City School of Nursing & Health Studies
 Lisa Cillessen - University of Missouri - Kansas City School of Pharmacy
 Rick Lustig - Saint Luke's Hospital
 Supavan Brown - University Health
 Willie Lawrence - Research Medical Center

Hub Team Members

KIDNEY DISEASE

Cate Rudder - Kilgore's Medical Pharmacy
 David Wooldridge - Saint Luke's Hospital
 Deanna Sybert - Independent
 Elizabeth Montgomery - National Kidney Foundation
 Jennifer Jackson - Cosmopolitan International Diabetes & Endocrinology Center
 Josephine Glaser - Dedicated Senior Medical Center
 Kelly Hinds - Kelly Hinds, RD
 Kunal Malhotra - University of Missouri - Nephrology Department
 Laurie Hines - Missouri Kidney Program
 Lisa Miller Schinke - Fresenius Kidney Care
 Marian Carr - Minority Donor Awareness Society
 Melissa Bensouda - Bensouda Management Services, LLC
 Preethi Yerram - University of Missouri Health System
 Yolanda Thompson-Martin - University Health

MISSOURI MOMS & BABIES

Alicia Forinash - University of Health Sciences & Pharmacy
 Alison Williams - Missouri Hospital Association
 Amanda Stephens - Independent
 Anjali Anders - University of Missouri - Women's & Children's Hospital
 Bobbi Lakin - Family Care Health Centers
 Eboni January - Doctor EJ's Fitness Bootcamp
 Jennifer Salmons - University of Missouri Health System
 Karen Florio - University of Missouri Health System
 Kimberly Brandt - University Physicians - South Providence Psychiatry
 Laura Vricella - Independent
 Mary Killday - University of Missouri - Women's & Children's Hospital
 Samuel Julian - Washington University School of Medicine

MOTHERS, INFANTS & NAS

Alan Barnette - Saint Francis Healthcare System
 Alison Williams - Missouri Hospital Association
 Becky Boedeker - SSM Health St. Mary's Hospital - Maternal & Fetal Medicine
 Elizabeth Simpson - Children's Mercy Hospital
 Jaye Shyken - Saint Louis University - Division of Maternal & Fetal Medicine
 Katie Althoff-Moore - SSM Health St. Mary's Hospital
 Kimberly Spence - Saint Louis University School of Medicine
 Mary Hope - SSM Health Cardinal Glennon Children's Medical Center
 Melissa Odegard-Koester - Southeast Missouri State University
 Misty Allen - Missouri Department of Social Services - Children's Division
 Niraj Chavan - SLUCare/SSM Health

Hub Team Members

OPIOID USE DISORDER

Angeline Stanislaus - Missouri Department of Mental Health
 Douglas Burgess - University Health
 Drew Shoemaker - Burrell Behavioral Health
 Eric Shult - University Health
 Evan Schwarz - Washington University School of Medicine
 Percy Menzies - Assisted Recovery Centers of America

ORAL HEALTH

Craig Hollander - Missouri Academy of Pediatric Dentistry
 Dima Dandachi - University of Missouri Health System
 Gerard Krueger - ATSU Missouri School of Dentistry & Oral Health
 Joseph Shea - St. Louis Prosthodontics
 Keerthana Satheesh - University of Missouri - Kansas City School of Dentistry
 Owen Lonergan - University of Missouri - Kansas City School of Dentistry
 Richard Vargo - ATSU Missouri School of Dentistry & Oral Health
 Romana Muller - ATSU Missouri School of Dentistry & Oral Health
 Stephanie Crist - Independent

PAIN MANAGEMENT

Azam Chizari - University Health
 Michelle Gates - University Health
 Mirissa Corbin - University Health
 Muhammad Farhan - University Health
 Richard Nobles - Independent
 Sarah Young - University Health
 Sybil Fowler - University Health
 Tashia Cramer - University Health
 Tony Brenneke - Independent

PEDIATRIC SLEEP

Aneesh Tosh - University of Missouri - Pediatric & Adolescent Specialty Clinic
 David Ingram - Children's Mercy Hospital
 John Spivey - Mercy Clinic - Children's Respiratory & Sleep Medicine
 Steve Sheldon - Independent
 Tracy Stroud - University of Missouri - Thompson Center
 Zarah Ner - University of Missouri - Women's & Children's Hospital

Hub Team Members

PEDIATRIC WEIGHT MANAGEMENT

Amy Braddock - University of Missouri Health System
 Angela Lima - Washington University School of Medicine
 Cristina Fernandez - Children's Mercy Hospital
 Debra Schumer - Independent
 Denise Wilfley - Washington University School of Medicine
 Julie Benard - Independent
 Karen Stephens - Children's Mercy Hospital
 Meredith Dreyer Gillette - Children's Mercy Hospital
 Sarah Hampl - Children's Mercy Hospital

POST-ACUTE CARE/LONG-TERM CARE

Amy Vogelsmeier - University of Missouri - Sinclair School of Nursing
 Angela Sanford - Saint Louis University School of Medicine
 Ashlee Jenkins - StoneBridge Senior Living
 Kent Kirkwood - Lenoir Woods
 Lea Brandt - University of Missouri Health System
 Lisa Wilson - Missouri Telehealth Network
 Lori Popejoy - University of Missouri
 Marla Berg-Weger - Saint Louis University
 Susan Elliott - Saint Louis University

RURAL HEALTH PRECEPTORS

Carla Dyer - University of Missouri Health System
 Christine Heath - University of Missouri - College of Veterinary Medicine
 Erica Ottis - University of Missouri - Kansas City School of Pharmacy
 James Felts - Mercy Clinic Family Medicine - Rolla
 Kelly Cochran - University of Missouri - Kansas City
 Linda Headrick - University of Missouri Health System

SUICIDE PREVENTION IN HEALTH CARE

Bart Andrews - Behavioral Health Response
 Beth Zimmer - Chris Carter Charity for Life
 Donald Bohnenkamp - Barnes-Jewish Hospital/Washington University
 Kirsti Millar - ReDiscover
 Randy Jotte - Washington University School of Medicine
 Rebecca Hensley-Ward - University Health
 Richard Nobles - Independent
 Robert Poirier - Washington University School of Medicine
 Shelby Lang - Center for Behavioral Medicine

Hub Team Members

TELEMEDICINE

Eve-Lynn Nelson - University of Kansas Medical Center
 Karen Edison - Missouri Telehealth Network
 Kristy Gagnon - University of Kansas Medical Center
 Molly Brown - Heartland Telehealth Resource Center
 Rachel Mutrux - Missouri Telehealth Network
 Robert Stiles - University of Kansas School of Medicine
 Tim Davis - Oklahoma State University Center for Health Sciences

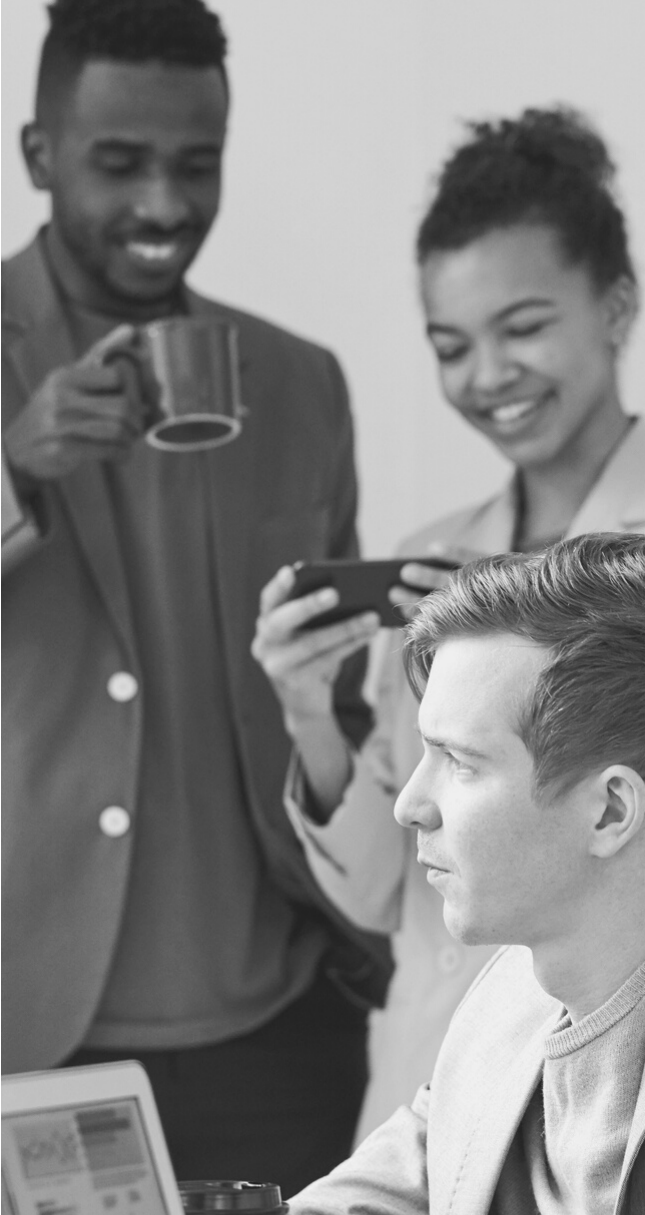
TRAUMA INFORMED SCHOOLS

Aaron Knipmeyer - Lafayette County C-1 School District
 Amy Escott - University of Missouri - St. Louis Children's Advocacy Group
 Beth Love - Harrisonville R-IX School District
 Cecilia Belser-Patton - Alive and Well Communities
 Deb Cook - Kennett Public Schools
 Kellie Willis - University City School District
 Megan Marietta - St. Louis Public Schools
 Nicky Bennett - Lexington R-V School District

VETERINARY EDUCATION & TRAINING

Brian Shoemake - Texas A&M University
 Chris Baughman - Lincoln University
 Cody Secrest - Countryside Veterinary Clinic
 Corinne Bromfield - University of Missouri - Veterinary Continuing Education
 Craig Payne - University of Missouri
 Pamela Adkins - University of Missouri - College of Veterinary Medicine
 Scott Poock - University of Missouri
 Tamara Gull - University of Missouri - Veterinary Medical Diagnostic Laboratory
 Tim Evans - University of Missouri - Veterinary Medical Diagnostic Laboratory

Learner Survey



403 survey responses

Twice yearly, all ECHO attendees are surveyed to learn about satisfaction with technical aspects of ECHO, confidence with ECHO-related skills (self-efficacy), suggestions for improvement, desired topics for knowledge-burst presentations, and any changes they have implemented as a result of their ECHO participation.

This report focused on the latest administration in October/November 2022. Overall, ECHO attendees reported very positive experiences (95% rate their overall experience as “good” or “excellent”). Survey results also indicated that time issues (scheduling and lack of time) were the greatest barrier to attendance.

Participants' confidence with ECHO-related skills (self-efficacy) increased, on average, 2 points on a ten-point scale from 4.7 to 6.7 with 4 being “Somewhat confident” and 6 being “Confident”.

Notes

Cases Map Page 27:

Health Professional Shortage Areas:

Data from data.HRSA.gov, January 2022

<https://www.ruralhealthinfo.org/charts/5?state=MO>

Case and Hub Map created with Mapchart.net

Data Notes:

- Information may differ slightly from earlier years as we continually improve our data and refine our definitions.
- COVID-19 numbers for 2020 were adjusted to remove AHRQ ECHO-National Nursing Home COVID-19 Action Network.
- There were 490 responses by learners (hub and spoke) to a question about what changes they made to their practice as a result of attending ECHO.
- There were 61 responses to a survey question about their experiences with presenting a case during ECHO.