

UNM Project ECHO & College of Education and Human Sciences

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Presented 11/30/2023 before the
NM LHHS Committee

At ECHO, our mission is to democratize implementation of best practices for health care and education to underserved people all over the world.



Moving Knowledge, Not People

Founding Goals of Project ECHO

Develop capacity to safely and effectively treat Hepatitis-C (HCV) in all areas of New Mexico and to monitor outcomes.

Develop a model to treat complex diseases in rural locations and developing countries.

The ECHO Model



Use technology to leverage scarce resources



Apply case-based learning to master complexity



Share best practices to reduce disparities



Evaluate and monitor outcomes



ECHO Whale



PCA Espanola



Baton Rouge



Pecos Valley MC



DOH Las Cruces



SBRT-First Choice South Va



Memorial HDX7000



LAS VEGAS ECFH



Clustering of Poor Prognostic Factors in Heavy Patients

Weight, kg (lb)	< 75.0 (1,650)	≥ 75.0 (1,651) ^a
Male, n (%)	100 (100.0)	107 (100.0) ^b
Race, n (%)	71 (71.0)	78 (72.9) ^b
Age, years ^c	51.0 ± 8.5	53.0 ± 8.0 ^b
BMI, kg/m ²	31.0 ± 5.7	35.0 ± 6.0 ^b
Diabetes, n (%)	14 (14.0)	22 (20.6) ^b
Long-term alcohol use ^d	5 (5.0 ± 5.0)	6 (5.6 ± 5.6) ^b
HEV-ITL, n (%)	102 (102.0)	108 (100.0) ^b
HEV, n (%)	100 (100)	108 (100.0) ^b
Resected, n (%)	20 (20.0)	22 (20.6) ^b

Abbreviations: BMI, body mass index; HEV, hepatitis E virus; HEV-ITL, hepatitis E virus immunotransferase-like; ITL, immunotransferase-like; n, number of patients; %, percentage; kg, kilograms; lb, pounds; long-term alcohol use, ≥ 10 years of alcohol consumption; a, p < .05 vs patients with weight < 75.0 kg; b, p < .05 vs patients with weight < 75.0 kg; c, p < .05 vs patients with weight < 75.0 kg; d, p < .05 vs patients with weight < 75.0 kg.

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DRUG INFORMATION HANDBOOK





Results of the HCV Outcomes Study

Outcomes of Treatment for Hepatitis C Virus Infection
by Primary Care Providers

HCV Treatment in New Mexico Prisons

- Partnership with Project ECHO, NMCD, NMDOH, Wexford Health Services
- NM Legislature appropriated funding for HCV medications in NMCD.
- We have increased the number of incarcerated people being treated for HCV by 500%.
- The combination of HCV Screening, 340B pricing, the appropriation for HCV medications, and the New Mexico Peer Education Program have made this possible.
- >2500 patients treated in NM Prisons

NMPEP HCV Education Reach

Peer Educators provide: HCV focused workshops targeting general prison population:

- >1000 Total Peer Educators Trained
- > 27,000 Incarcerated People Trained on HCV



NMPEP Bi-Weekly ECHO Session



STUDY: VA SCAN-ECHO for Liver Disease

University of Michigan

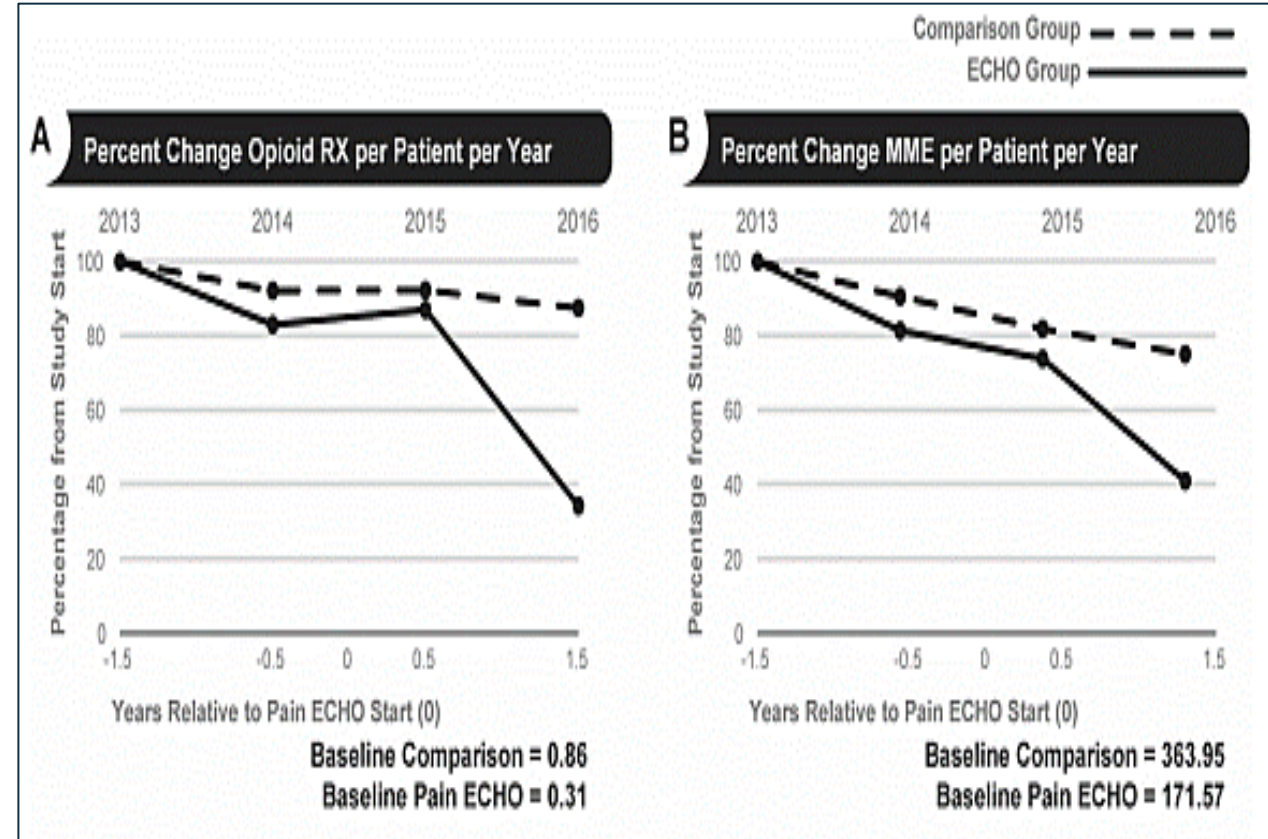
513 patients who had a liver SCAN-ECHO visit were found within the cohort. Patients who had completed a virtual SCAN-ECHO visit were more likely younger, rural, with more significant liver disease, and evidence for cirrhosis.

Propensity adjusted mortality rates using Cox Proportional Hazard Model showed that a SCAN-ECHO visit was associated with a hazard ratio of 0.54 (95% CI 0.36-0.81, $p = 0.003$) compared to no visit.

Virtual Consultations through the Veterans Administration SCAN-ECHO Project Improves Survival for Veterans with Liver Disease Su. GL, Glass L, et al; Hepatology . 2018 May 5. doi: 10.1002/hep.30074

STUDY: ECHO Pain

- Intervention group (99 clinics participating in ECHO Pain); Control group (1283 clinics)
- **Method:** Rx counts for [de-identified] patients enrolled with PCC teams from FY 2013-FY 2016.
- **The average annual decline of # of Rx/patient/year decreased 23% for ECHO Pain participants compared to 9.2% for non-participants ($p=.004$).**



Katzman, J. G., Qualls, C. R., Satterfield, W. A., Kistin, M., Hofmann, K., Greenberg, N., ... & Arora, S. (2019). Army and Navy ECHO Pain Telementoring Improves Clinician Opioid Prescribing for Military Patients: an Observational Cohort Study. *Journal of general internal medicine, 34*(3), 387-395.

Legislative Funded New Mexico Project ECHO Health Programs

Adverse Childhood Experience ECHO Program	Adverse Childhood Experience ECHO Program: Putting Faces to the ACES	Alcohol Use and Mental Health ECHO Program	Bone Health ECHO Program	Cancer Survivorship ECHO Program	Care for the Older Patient ECHO Program	Dermatology ECHO Program
Endocrinology ECHO Program	General Pediatrics ECHO Program	HIV ECHO Program	Improving Perinatal Health ECHO Program	Supporting Children and Youth in Mental Health ECHO Program	Palliative Care Champions ECHO Program	Miners' Wellness ECHO Program
Neurology ECHO Program 02/24	Palliative Care ECHO Program	Violence Prevention ECHO Program	Reproductive Health ECHO Program	Diabetes Prevention Specialization for CHWs ECHO Program (Salud es Riqueza)	Rheumatology ECHO Program	Safe Care NM ECHO Program
School-Based Health Center ECHO Program	New Mexico Viral Hepatitis ECHO Program	Opioid Crisis and Pain ECHO Program 12/23	CHW/CHR Specialization in Maternal Health ECHO Program 02/24	Tumor Boards ECHO Program 12/24	Substance Use Disorder in Maternal Health ECHO Program 01/24	Street Medicine ECHO Program
		Climate Change and Human Health ECHO Program	Gender Affirming Care ECHO Program	Colorectal Cancer Screening ECHO Program 04/24		

Cross-Cutting Legislative Funded ECHO Programs and Initiatives

The following series crosscut several programs to best support participant and community-identified learning objectives.

Pediatric Brain
Injury Series ECHO
Program

Fentanyl Series
ECHO Program

Medication-
Assisted Treatment
for Youth Series
ECHO Program

New Mexico Health Programs Supported Through Grants and Contracts

Social Determinants Of Health in Diabetes ECHO Program

Infectious Diseases Office Hours

Medicaid Quality Improvement and Hospitalization Avoidance ECHO Program

Supporting Rural Providers in DSMES Implementation ECHO Program

Post COVID Primary Care ECHO Program

Clinical Communications ECHO Program

Community Peer Education Program (post incarceration)

NM Peer Education Program (Incarcerated Individuals)

NM Infectious Disease Consult ECHO Program

Diabetes Prevention Specialization for CHWs ECHO Program (CDC)

New Mexico Opioid Community Health and Peer Support Worker Training

Health Programs that Support New Mexico's Children

Adverse Childhood Experience ECHO Program

Adverse Childhood Experience ECHO Program: Putting Faces to the ACES

General Pediatrics ECHO Program

School Based Health Center ECHO Program

Supporting Children and Youth in Mental Health ECHO Program

Safe Care ECHO Program

Improving Perinatal Health ECHO Program

Reproductive Health ECHO Program

Pediatric Brain Injury Series ECHO Program

Medication Assisted Treatment for Youth Series ECHO Program
12.15.23

Climate Change and Human Health ECHO Program

Violence Prevention ECHO Program

Diabetes Prevention Specialization for CHWs ECHO Program (Salud es Riqueza)

Health Programs that Support the Management of New Mexico's Opioid Crisis

Adverse Childhood Experience ECHO Program

Adverse Childhood Experience ECHO Program: Putting Faces to the ACES

Substance Use Disorder in Maternal Health ECHO Program

Supporting Children and Youth in Mental Health ECHO Program

Violence Prevention ECHO Program

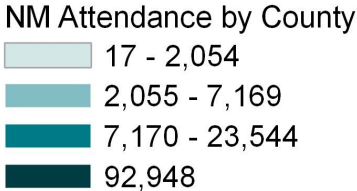
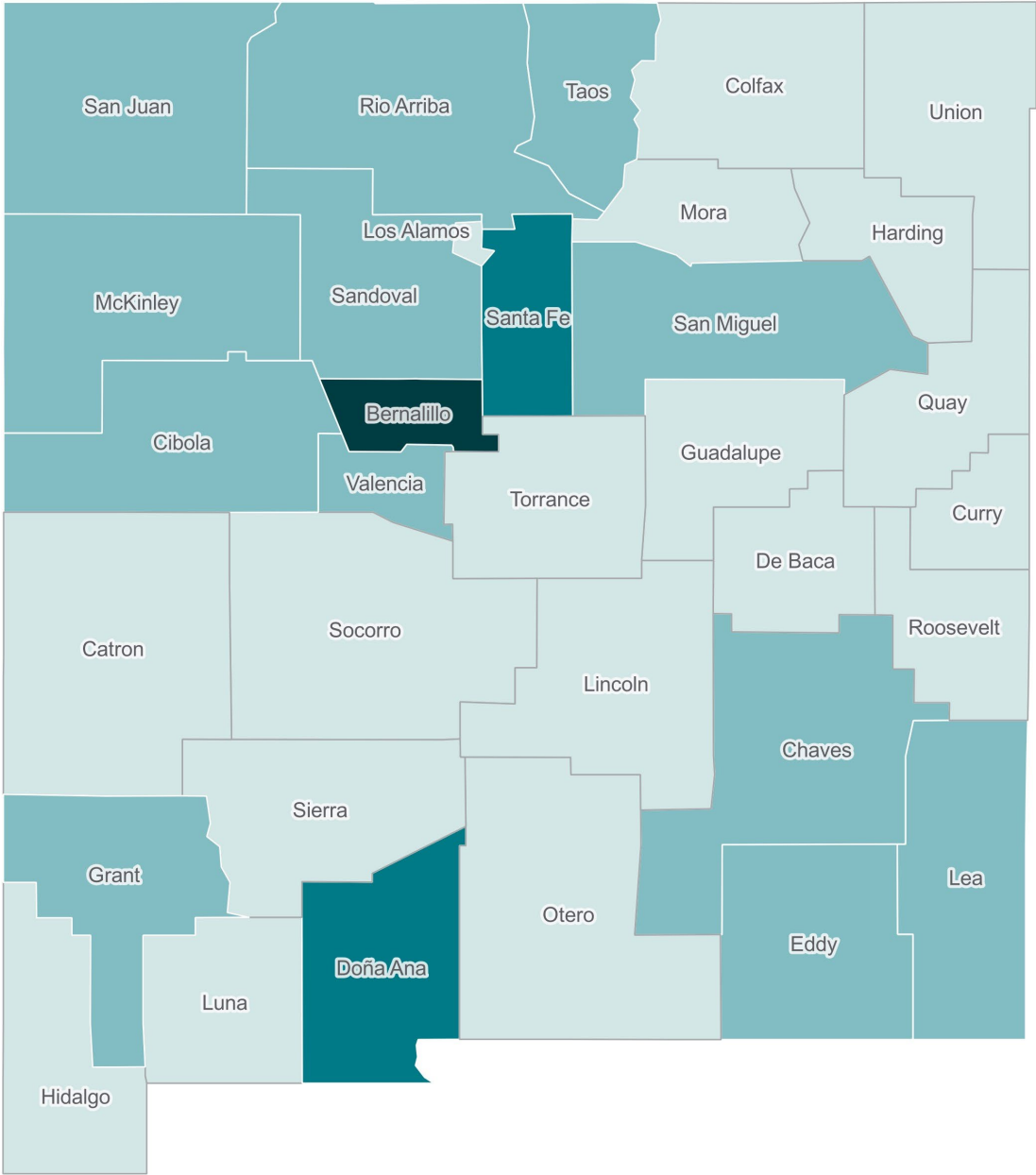
Fentanyl Series ECHO Program

Medication Assisted Treatment for Youth Series ECHO Program
12.15.23

Opioid Crisis and Pain ECHO Program

Map of Attendance by first line professionals in ECHO Sessions Across the State

As of 11/14/2023, there have been **199,693** cumulative attendances by at least **21,640** individuals.



NM County	Total Attendance	Unique Attendees
Bernalillo	92,948	11,942
Catron	113	10
Chaves	3,938	418
Cibola	4,043	381
Colfax	1,130	142
Curry	771	137
De Baca	73	12
Dona Ana	15,543	1,197
Eddy	2,790	163
Grant	3,435	259
Guadalupe	1,245	184
Harding	17	3
Hidalgo	780	40
Lea	2,594	223
Lincoln	632	88
Los Alamos	297	62
Luna	608	102
McKinley	7,169	812
Mora	227	24
Otero	1,827	230
Quay	178	49
Rio Arriba	5,142	411
Roosevelt	2,054	89
San Juan	5,017	655
San Miguel	6,165	290
Sandoval	5,970	710
Santa Fe	23,544	1,501
Sierra	593	92
Socorro	1,028	181
Taos	2,898	320
Torrance	348	36
Union	222	35
Valencia	4,421	415

New Mexico County Attendance by first line professionals in ECHO Sessions Across the State

As of 11/14/2023, there have been **199,693** cumulative attendances by at least **21,640** individuals.

2023 Continuing Education Credits

Type of Continuing Education	Units Provided
Continuing Medical Education	8,079.25
Continuing Education	1,154.25
Continuing Education Units	3,914
Continuing Pharmacy Education	1,038
Pharmacy Technician Education	24.5
Continuing Nursing Education	1,607.5
Physician Assistant Education	117.5
Social Work Continuing Education	201
Psychologist Continuing Education	206.5
Dentist Continuing Education	93
Registered Dieticians Education	87.5

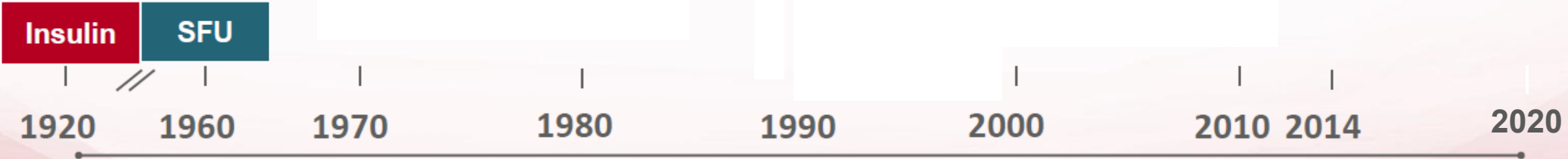


ECHO for Diabetes Care (Endo ECHO)

Matt Bouchonville, MD, CDCES
UNM Endocrinology Division
Medical Director,
Endo ECHO Program
mbouchonville@salud.unm.edu



Therapeutic Advances Over Past 20 Years: Many Options For Managing Type 2 Diabetes



Slide adapted from Robert Gabbay, MD

Advances in health technology, policy, and new therapies have *NOT* translated to improvements in diabetes *care quality*

DPP-4 and GLP-1 Rx approved

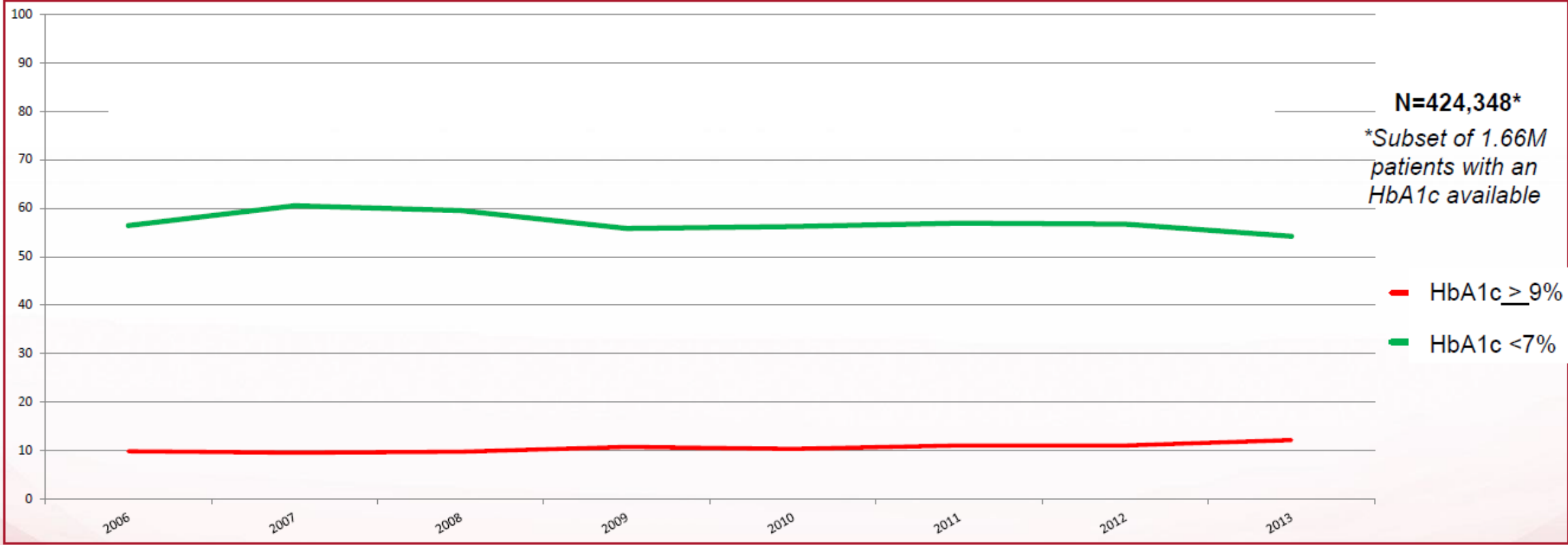
Increased adoption of EHRs, HITECH Act, iPhone and apps introduced

Affordable Care Act becomes law, proliferation of "personal tech"

Meaningful Use Implementation, PCMH, ACO formations

SGLT-2 inhibitor Rx approved

Proportion of patients with Type 2 Diabetes



Adapted from Lipska KJ, et al. Trends in drug utilization, glycemic control, and rates of severe hypoglycemia, 2006-2013. *Diabetes Care*. doi: 10.2337/dc16-0985.

Urban–rural disparities in diabetes-related mortality in the USA 1999–2019

Ofer Kobo^{1,2}  • Harriette G. C. Van Spall^{3,4,5,6}  • Mamas A. Mamas^{2,7,8} 

Recent improvements in diabetes-related mortality in the US have been only observed in *urban* areas (mostly in females and older adults)

Rural-urban mortality gap has *tripled* over this period of time

Those with the highest diabetes-related mortality include American Indians and Blacks

Diabetologia 2022;65:2078–2083.

How are we looking for the future?

PREDIABETES

96
Million

96 million American adults—**more than 1 in 3**—have prediabetes



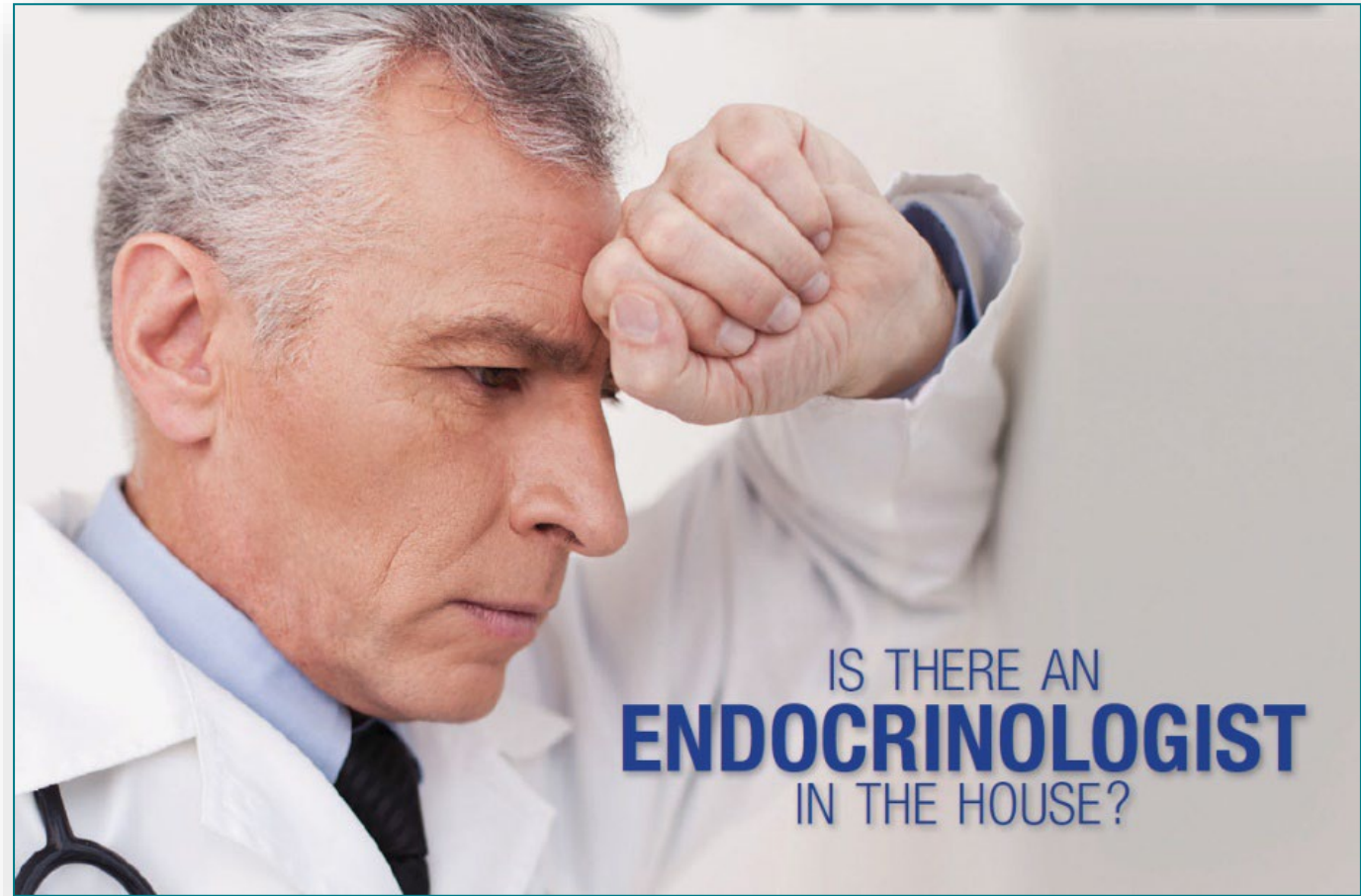
More than 8 in 10 adults with prediabetes **don't know they have it**

https://www.cdc.gov/diabetes/images/library/socialmedia/DiabetesInTheUS_Print.pdf

Care of a “diabetes specialist” is associated with improved outcomes

Shortage of 1,500 endocrinologists in the US – supply/demand mismatch expected to double over next 10 years

90% of diabetes population is cared for by primary care providers, in part due to a national shortage of specialists



Curr Diab Rep 2016;16(10):96.

J Clin Endocrinol Metab 2014;99(9):3112-21.

Mayo Clin Proc 2010; 85(12 Suppl): S3-S4.

J Clin Endocrinol Metab 2020;105(6):1701–1706.

Where does Project ECHO fit into this picture?

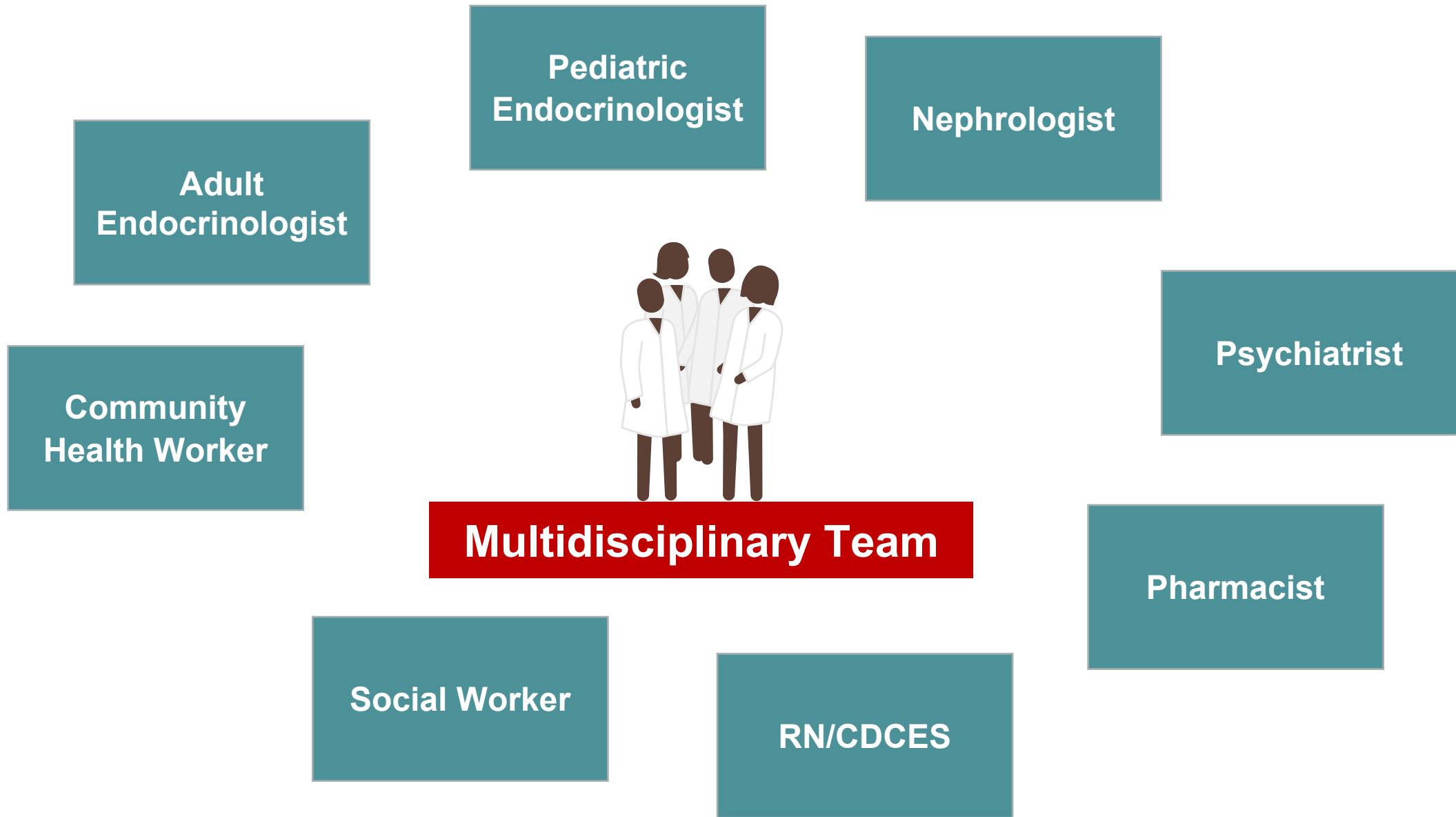


PCPs cite lack of confidence around guidelines and adequacy of training as barriers to providing optimal diabetes care

PCPs report that “case coaching” and multidisciplinary collaboration can overcome these barriers

BMC Fam Pract 2009;10:39.

Implement Sci 2009;4:41.





ECHO for diabetes (Endo ECHO)

Multidisciplinary/multidirectional knowledge exchange allows for a diversity of perspectives and integration of SDOH into personalized care plans which helps overcome therapeutic inertia



PCP-reported outcomes after Endo ECHO participation

PCPs are More Confident



↑**60%**

PCPs reported significant increases in self-efficacy in complex DM management.⁵

PCPs are Better Equipped



↑**110%**

PCPs are twice as likely to adopt best practice diabetes care after Endo ECHO.

PCPs are Referring Fewer Patients Out



↓**67%**

PCPs reported a significantly reduced need for referring endocrine patients to a specialist.

PCPs are Receiving Referrals



90%

of PCPs indicated they are likely to receive referrals from other PCPs.²

1. *Endocr Pract* 2018;24(1):40-46.

2. Endocrine Society Annual Meeting & Expo, Chicago, March, 2018.

Improving Quality of Healthcare Delivery in Rural NM



Improved patient perception of self-confidence, well-being, and quality of care



Improved patient activation and self-care behaviors



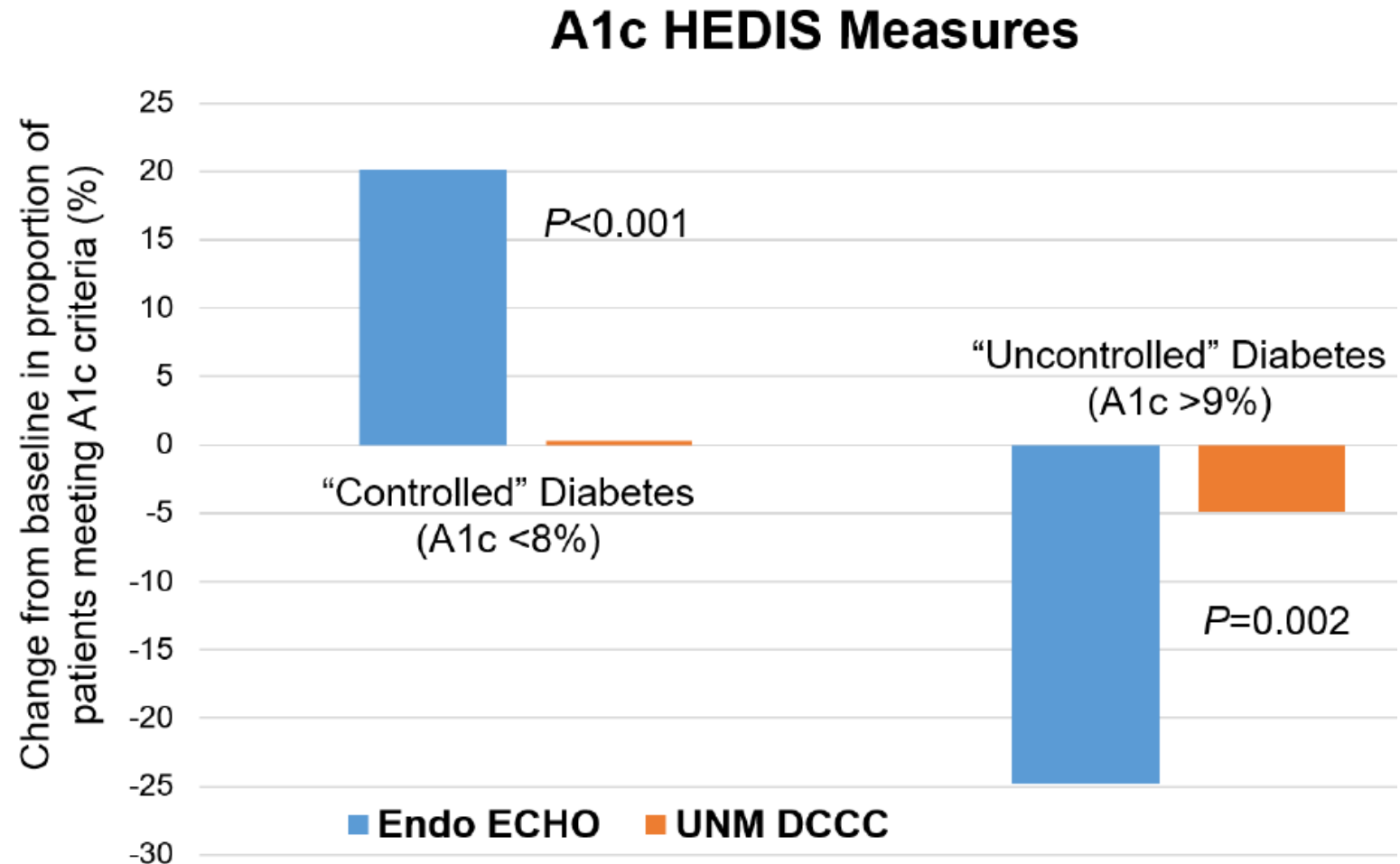
Improved prescription-related quality metrics (Medicaid claims data)

ENDO Annual Meeting. New Orleans, LA, March, 2019.
J Health Care Poor Underserved 2020;31:1124-1133.

Sci Diabetes Self Manag Care 2023;49(3):239-246.
Endocr Pract 2020;26(10):1070-1076.

Overcoming Therapeutic Inertia in NM

Endo ECHO participants were more likely than patients at the UNM specialist clinic to transition *from* “uncontrolled” and to “controlled”



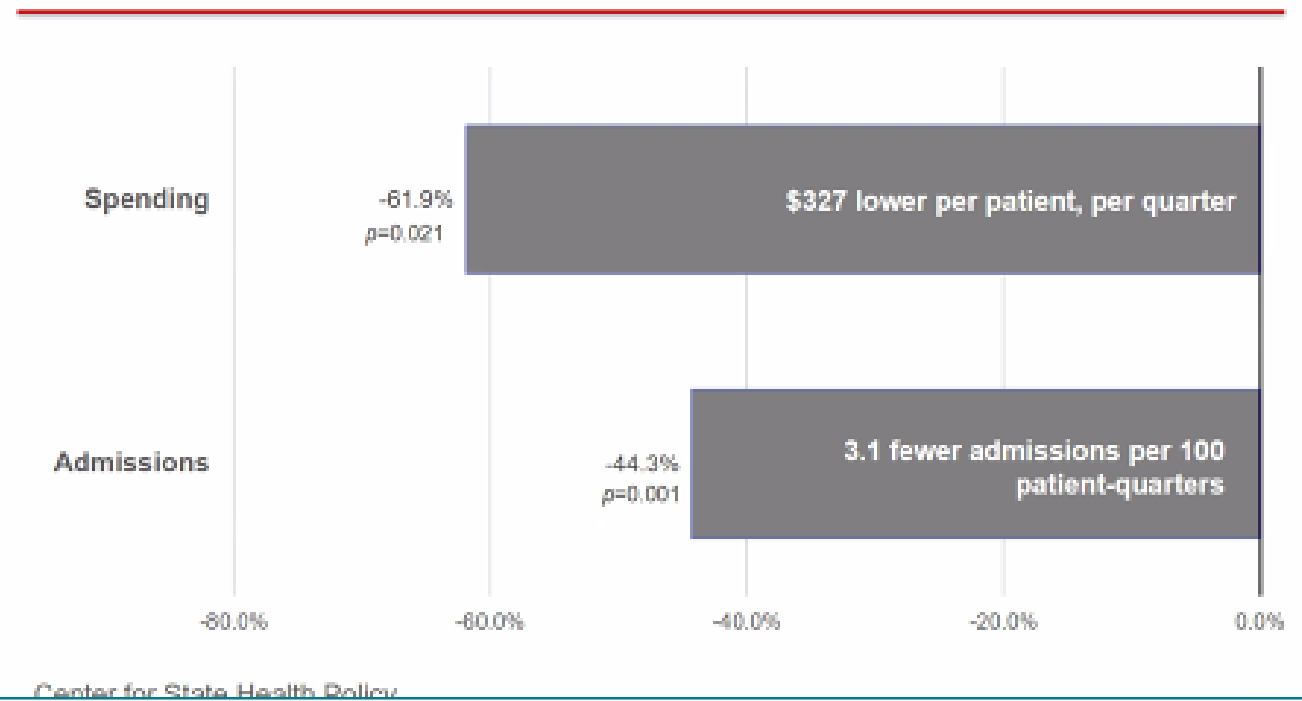
ENDO Annual Meeting. New Orleans, LA, March, 2019.
J Health Care Poor Underserved 2020;31:1124-1133.

Sci Diabetes Self Manag Care 2023;49(3):239-246.
Endocr Pract 2020;26(10):1070-1076.

Rutgers Endo ECHO: Reduced Healthcare Spending

Endo ECHO participation is associated with a reduction in inpatient hospitalizations and spending among patients with DM

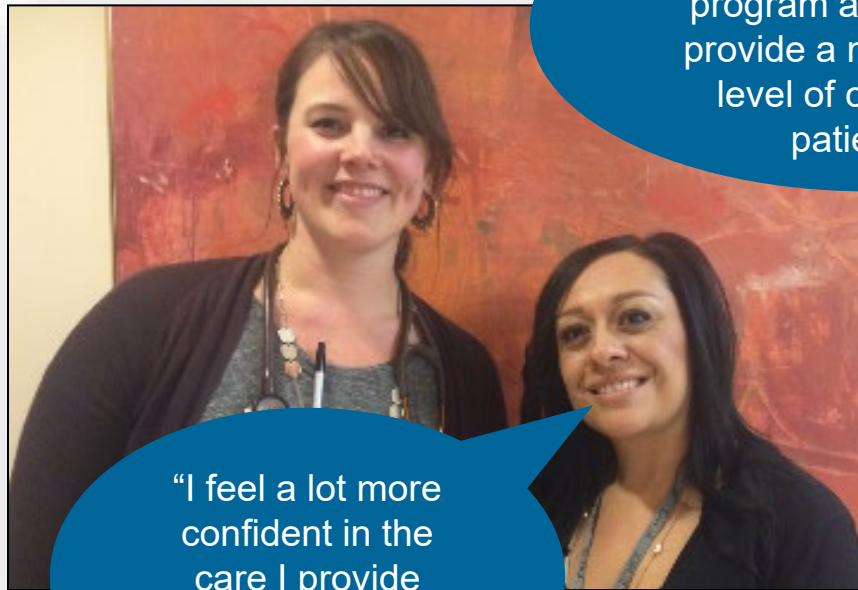
Diabetic Patients of EndoECHO PCPs Experienced **Lower Hospital Admissions and Associated Spending** than Comparison Patients
Percent change for intervention group relative to comparison group



Med Care 2022;60(7):481-487.

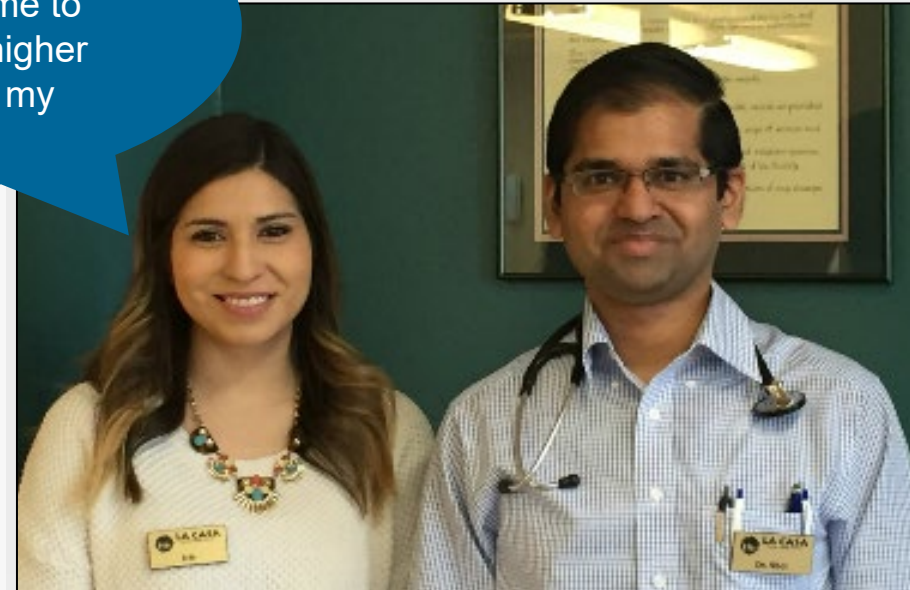
Why did the rural ECHO patients do better than our patients at the specialty clinic?

Diabetes is a
SELF-
managed
condition and
SUCCESS is
unlikely
without
PATIENT
ACTIVATION



“I feel a lot more confident in the care I provide because I have this backup.”

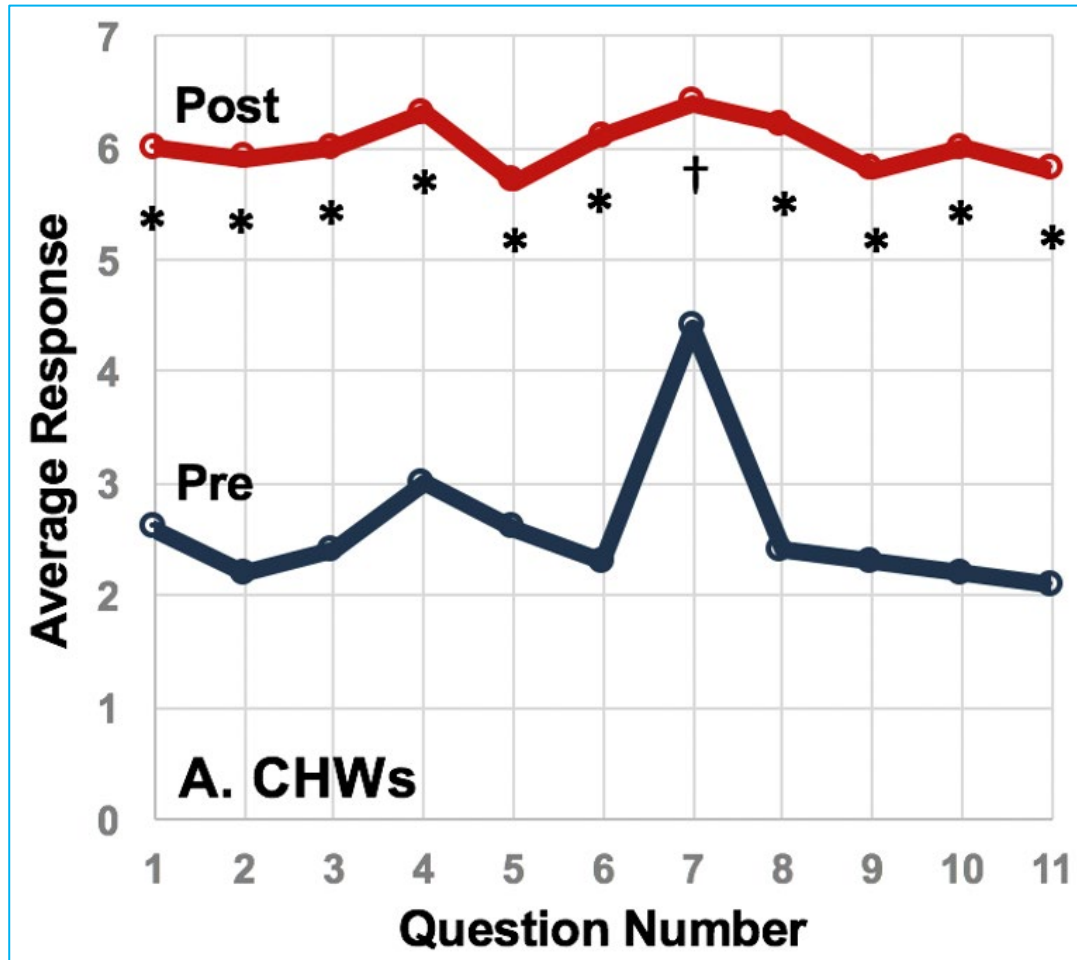
“I really appreciate the fact that participating in this program allows me to provide a much higher level of care to my patients.”



“It makes me more confident with my clinical care, and it makes me feel more comfortable with the care I’m providing to my patients.”



CHWs more skilled after participating in Endo ECHO

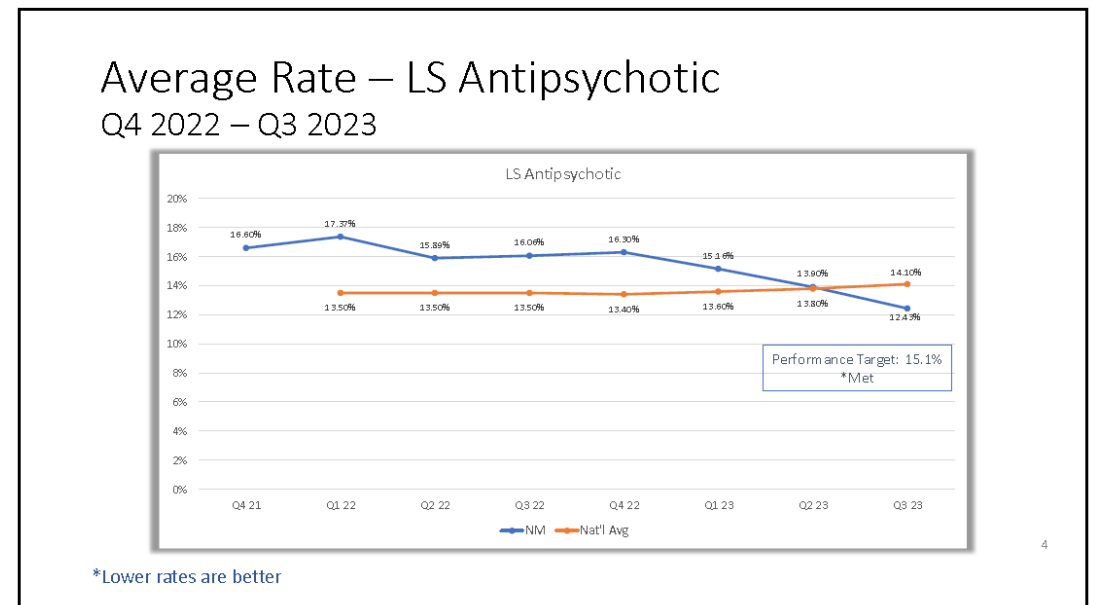


- More than 100% increase in self-efficacy around complex diabetes management
- New Mexico Department of Health CHW Certification obtained after participation

Endocr Pract 2018;24:40-46.

Medicare Quality Improvement ECHO Program: A Collaborative Effort for Antipsychotic Stewardship

- ECHO Didactics and grand rounds met the needs of New Mexico's 65 Nursing facilities related to antipsychotic stewardship.
- Continuing Education Credits extended to Certified Medication Aides.
- No-cost training that met Nursing Facility JAO and CMS guidelines.
- Development of Accessible Enduring Materials
- Surpassed QI Target Rate for 2023



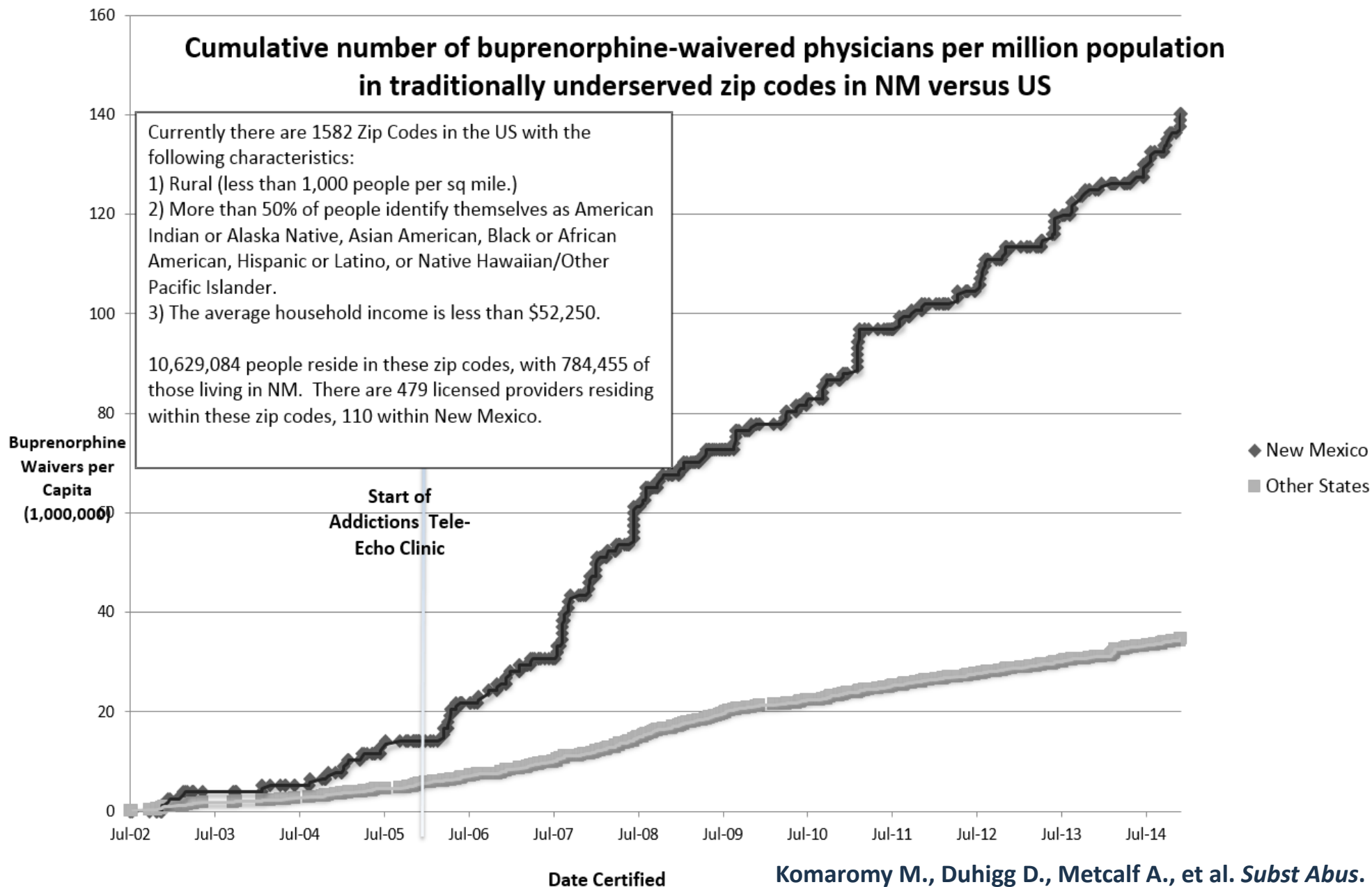
Project ECHO Assists with NMDOH's Professionalization of Community Health Workers & Community Health Representatives

- Developed ECHO programs which meet NMDOH approved specialization tracks:
 - Diabetes Prevention (Salud es Riqueza)
 - Maternal Health
- Offerings available in Spanish and English
- Specialization topics align with NMDOH Office of Community Health Worker priority areas.
- Coming soon: Opioid Use Disorder Specialization



Promotoras de Salud

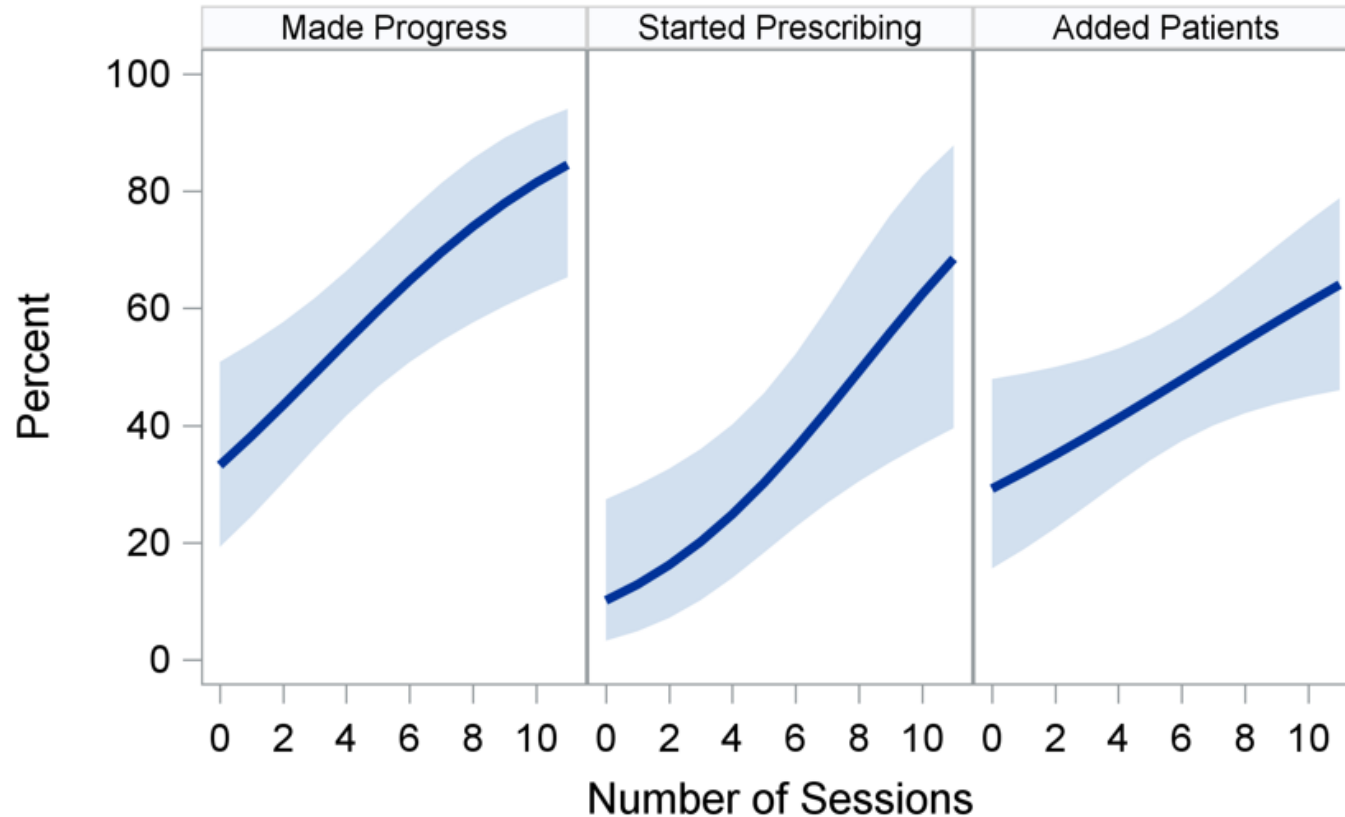
Cumulative number of buprenorphine-waivered physicians per million population in traditionally underserved zip codes in NM versus US



Komaromy M., Duhigg D., Metcalf A., et al. *Subst Abus.* 2016;37(1):20-4.

Participation in ECHO is Associated with Expanding Buprenorphine Treatment in Rural Primary Care for Patients with Opioid Use Disorder

Provider MOUD Benchmark Achievement



Made Progress (N = 79) OR = 1.24 (1.09, 1.42) P = 0.001
Started Prescribing Benchmark | Not Prescribing (N = 60) OR = 1.31 (1.09, 1.57) P = 0.004
Added Patients Benchmark (N = 79) OR = 1.14 (1.02, 1.28) P = 0.025

**Julie Salvador, Heidi Rishel
Brakey, Rana Alkhafaji,
Jesus Fuentes, Magdalena
McWethy, Laura Rombach,
Rachel Abeyta, Julia
Martinez, Andrew Sussman,
Orrin Myers**
University of New Mexico,
Albuquerque, New Mexico,
USA

Study Indicates Provider Participation in ECHO Useful Tool for Expanding Patient Access to Buprenorphine

Figure 1. Main Outcomes Among Extension for Community Health Outcomes (ECHO)-Trained and Comparison Clinicians in a Propensity Score-Matched Cohort

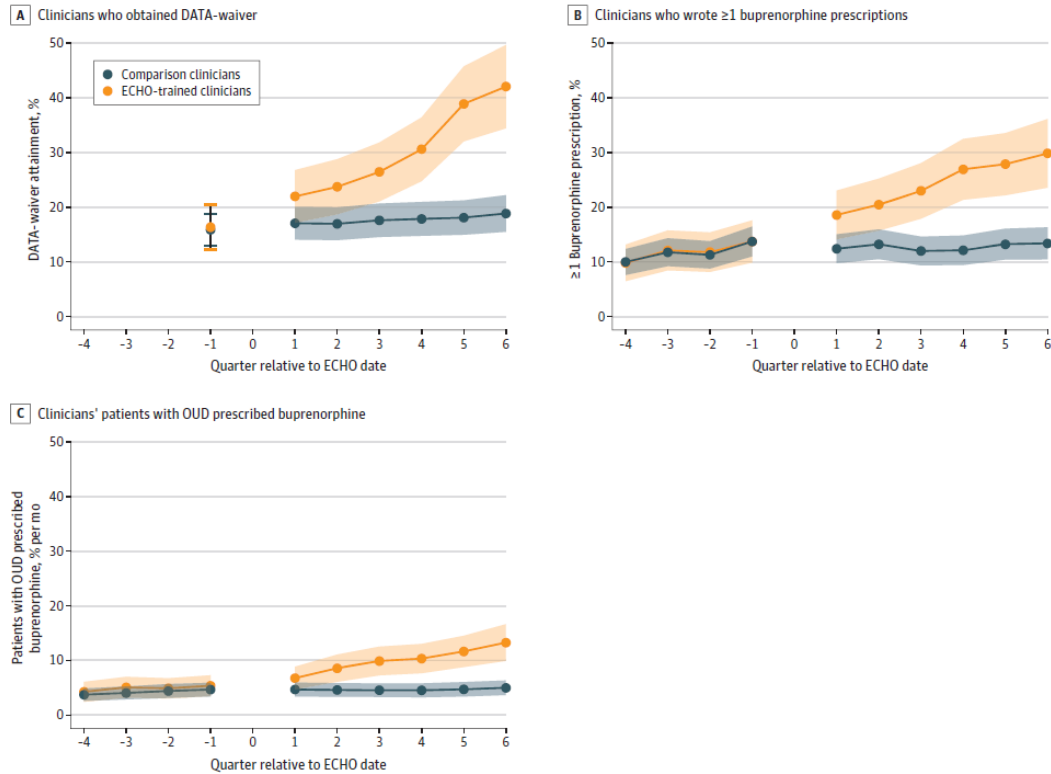
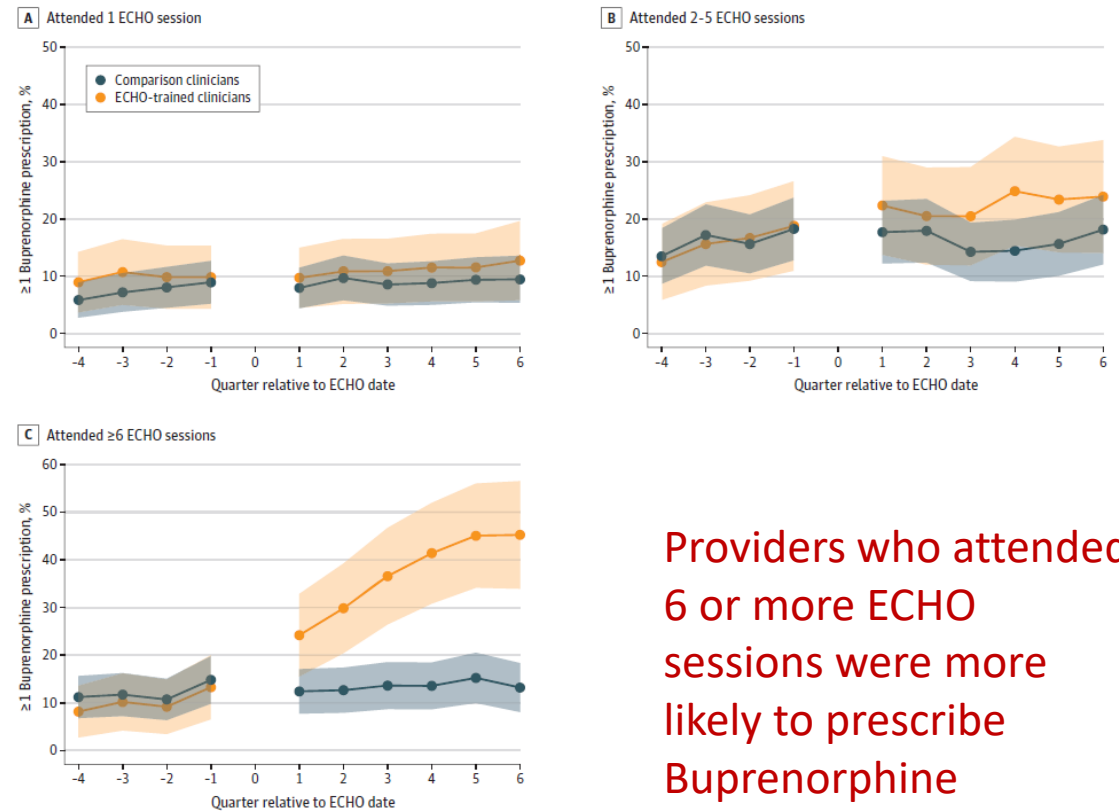


Figure 2. Association Between Project ECHO (Extension for Community Health Outcomes) Attendance and Writing 1 or More Buprenorphine Prescriptions Among ECHO-Trained and Comparison Clinicians in a Propensity Score-Matched Cohort



Providers who attended 6 or more ECHO sessions were more likely to prescribe Buprenorphine

JAMA Health Forum. 2022;3(11):e224149.

doi:10.1001/jamahealthforum.2022.4149

Dr. Leslie Hayes MD

El Centro Family Health

Benefits to me personally

Improved medical knowledge

Access to specialists

Improved confidence

My work with Project ECHO led directly to my ability to become Addiction Medicine Board Certified

Benefits to my patients

- Over the years, I have probably treated about 100 patients with opioid use disorder/year for 16 years
- Many of these patients have been in treatment for over a decade and have jobs, families, and good health
- In addition, all of my patients have benefited from my improved knowledge of mental health conditions, treatment of pain, and knowledge of COVID
 - Trauma-informed care and motivational interviewing have improved my care for all my patients

Benefits to the community

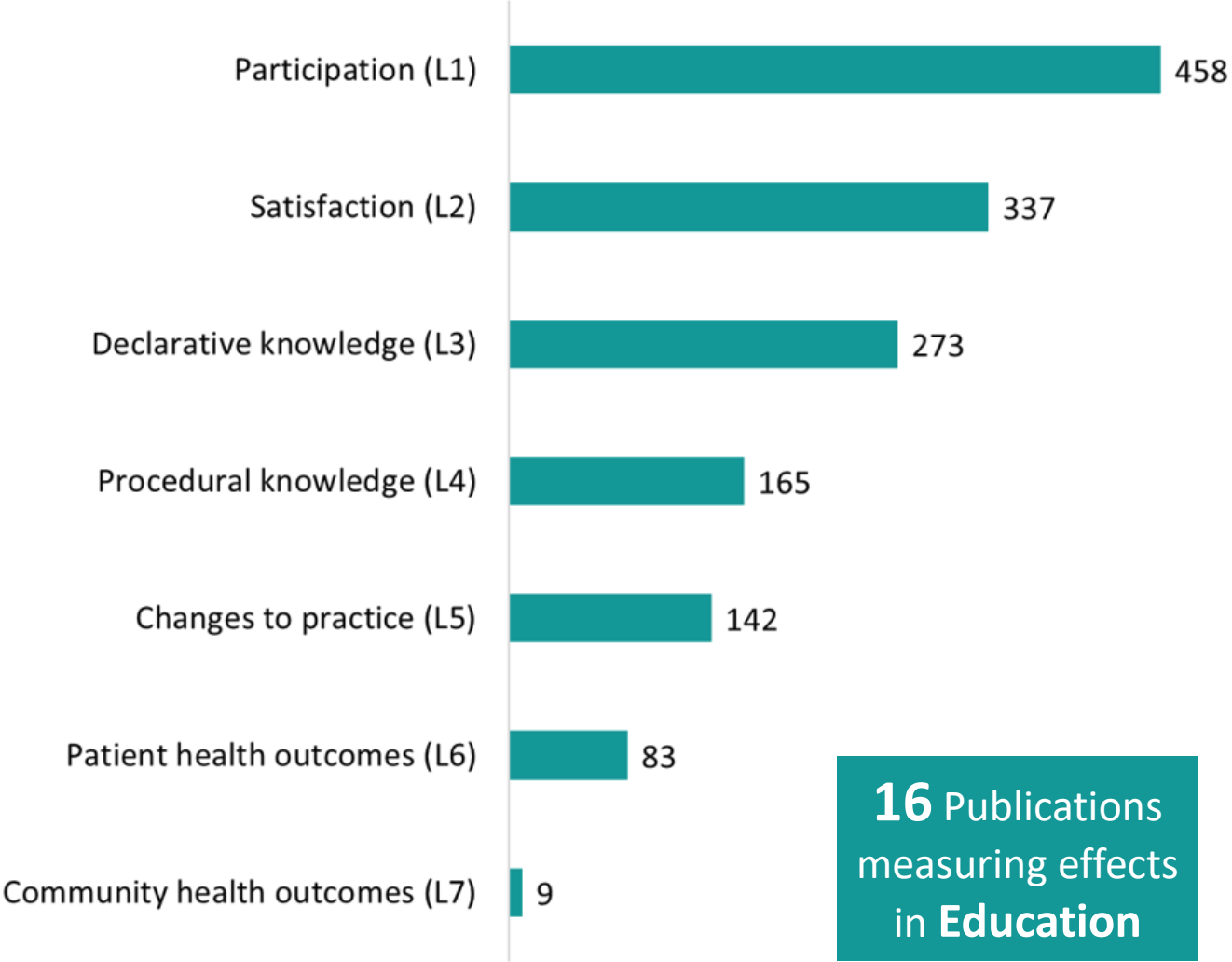
- I have mentored and trained dozens of people in my organization to treat patients with opioid use disorder, including starting my own ECHO four years ago.
- I helped New Mexico with our COVID response, serving as primary care physician on the COVID ECHO. At the peak of the epidemic, we often had 300-400 people signing in weekly to stay updated
- I have used the knowledge I gained through Project ECHO to give presentations to thousands of providers across the country about the importance of giving evidence-based care to patients with OUD

ECHO Publications by Outcome Levels



563 Publications

ECHO peer-reviewed publications by Moore's Level (N= 563)



16 Publications
measuring effects
in **Education**

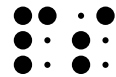
Benefits of the ECHO Model in Healthcare



Quality and safety



Rapid learning and best-practice dissemination



Reduce variations in care



Access for rural and underserved patients, reduced disparities



Workforce training and force multiplier



Improving professional satisfaction/retention



Supporting the medical home model



Cost-effective care - avoid excessive testing and travel



Prevent cost of untreated disease (e.g., liver transplant or dialysis)



Integration of public health into treatment paradigm

Democratizing Implementation of Best Practice

Fundamentally, the ECHO Model is a tool to help upskill frontline workers

- Ongoing mentorship and guided practice
- Discussion driven by real needs and actual cases and problems of those working on the frontline
- Provides a supportive social network
- Efficient and effective way to get implementation of best practices to frontline workers
- Creating a safe space for dialog, learning, and development



Recognizing the profound connection between education and health is vital for us to reduce health disparities

“If we really want to save lives in this country, prevent disease, reduce health care costs, we have to do something about education.”

Steve Woolf, Director, VCU Center on Society and Health.

Education is a key social determinant of health



An additional 4 years of education reduces risks of diabetes, heart disease, obesity and smoking

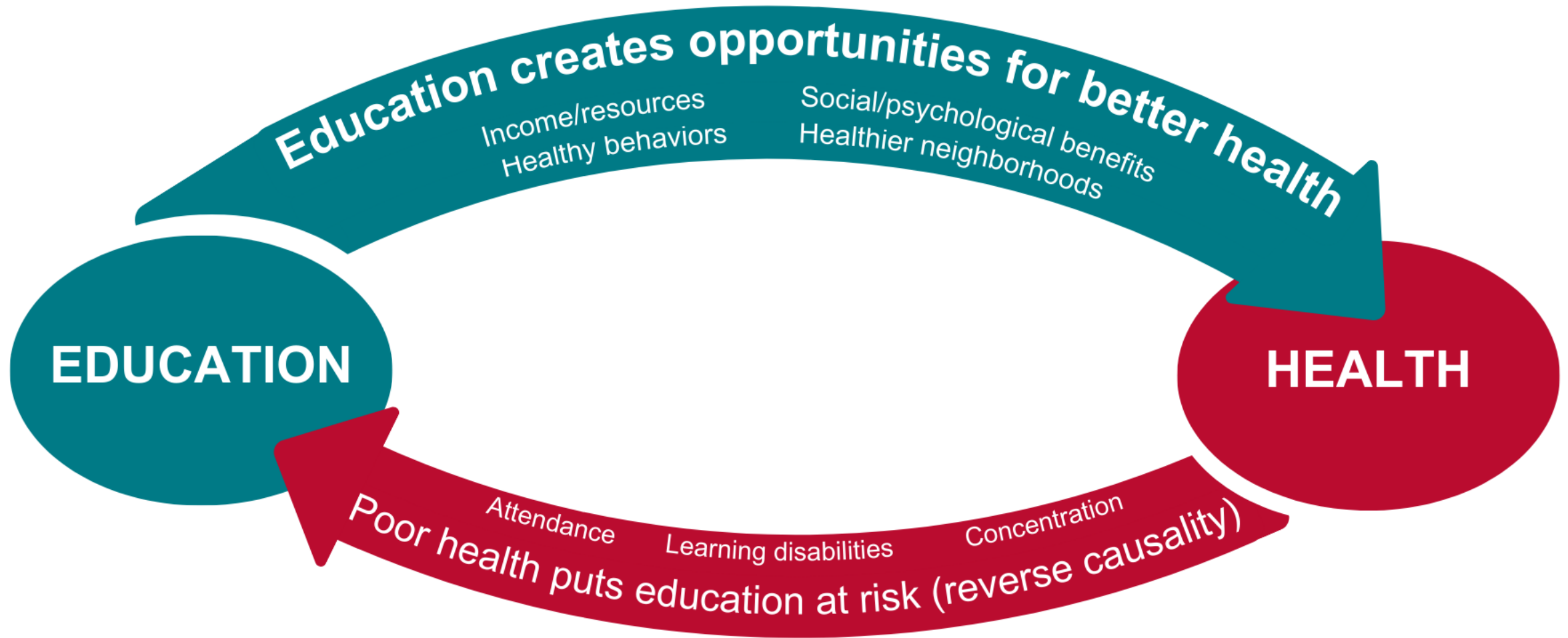


The more years of education a mother has received, the more likely her infant is to survive and thrive

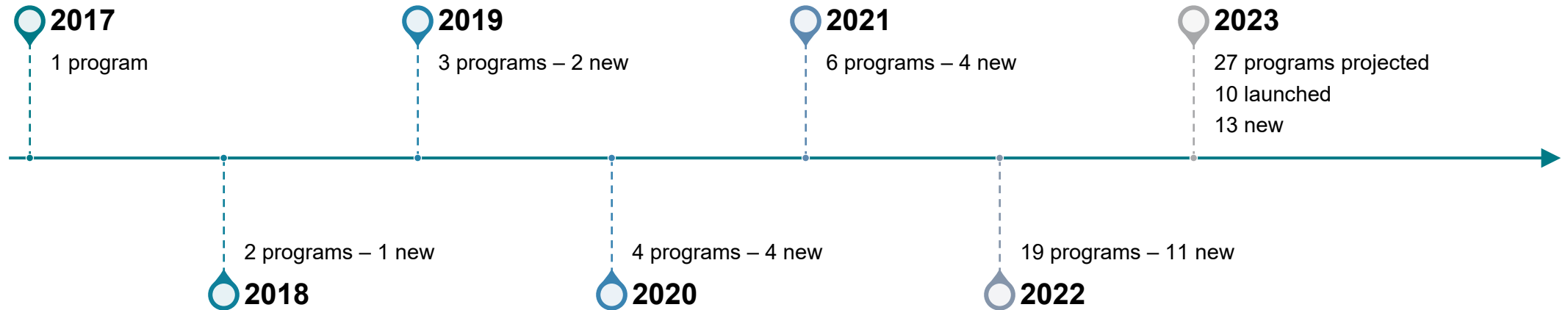


Education has generational effects – the likelihood of a child completing school is linked to their parents' educational attainment

Health and Education Intertwined



ECHO for Education NM: From Pilot to Proof of Concept to Building Capacity



6 years

28 Topics

44 Programs

550 Sessions

11,564 Hours of Learning

3,384 Unique Participants

All 33 NM Counties

999 Participating Orgs

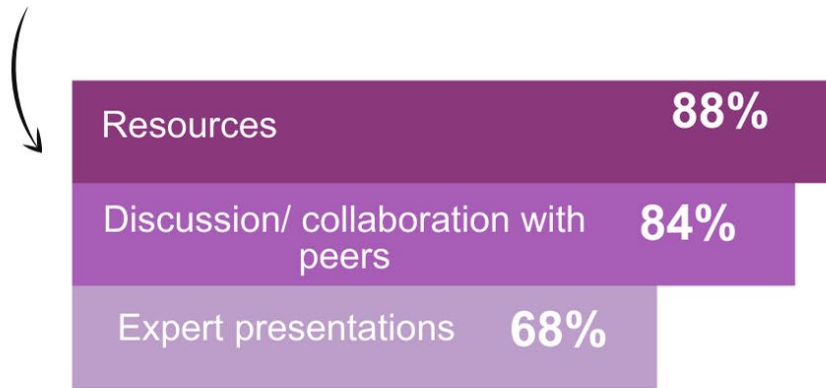
89 NM School Districts

New Mexico Project ECHO Education Programs

Adobe Think Tank ECHO Program	Community Schools NM ECHO Program (CS)	CoRequisite Model for Higher Education NM ECHO program	Developmental Specialists NM ECHO Program (Leadership)	Developmental Specialist Community of Practice	Early Childhood Statewide Inclusion Supports NM ECHO Program
Early Childhood STEM NM ECHO Program	Early Numeracy for Elementary ECHO Program	Educator Resiliency through Social Emotional Learning	Elementary Math NM ECHO Program	FACULTY ECHO Program	Family Engagement in Early Literacy NM ECHO Program
Integrating STEM NM ECHO Program	Social Emotional Early Development Consultation Support	Leadership Engagement and Development in Child Care NM ECHO Program	Middle School OpenSciEd NM ECHO Program	Multilingual Early Childhood Certificate Pathway (Coursework)	Multilingual Early Childhood Certificate Pathway (Equity)
Multilingual Early Childhood Certificate Pathway (Sustainability)	Reflective Practice in Early Care and Education NM ECHO Program	Science K-8 NM ECHO Program	Southwest College and Career Counseling ECHO Program	STEM through Math NM ECHO Program	Strengthening Families and Communities NM ECHO Program
	Structured Literacy for the Classroom Kinder NM ECHO Program	Structured Literacy for the Classroom 1st Grade NM ECHO Program	Structured Literacy for the Classroom 2nd Grade NM ECHO Program		

Participant Evaluation Survey

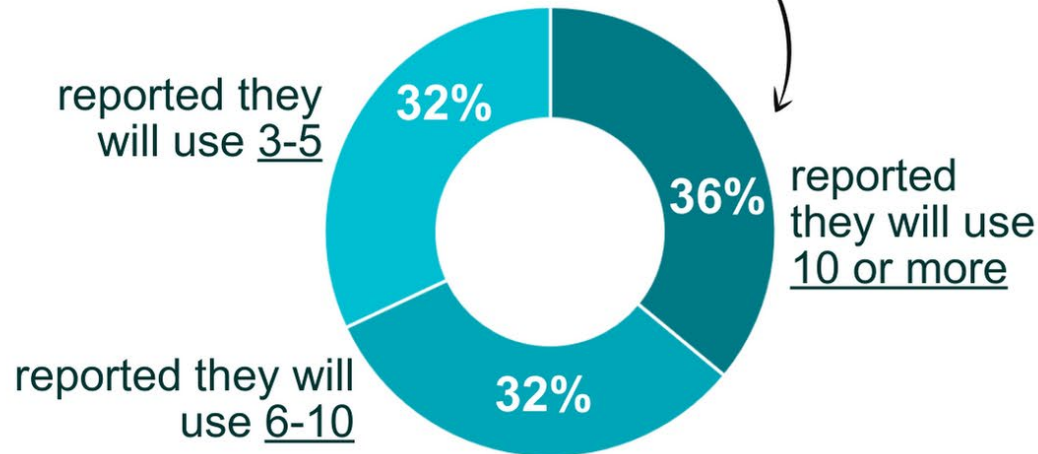
What participants found to be the most beneficial aspect of the program



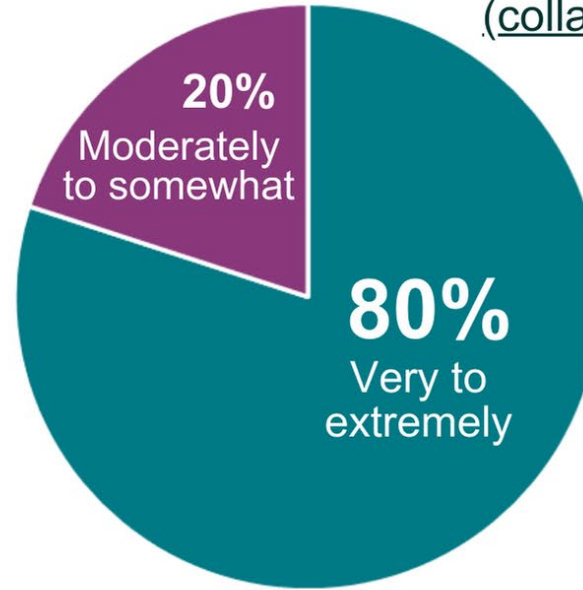
How many strategies and approaches participants plan to use

100%

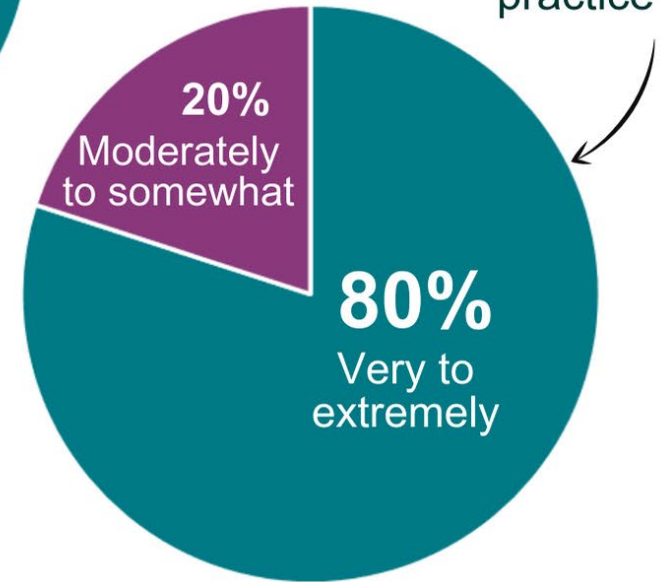
Reported implementing strategies and approaches learned in the program



How useful were the discussions (collaborative problem solving) to participant practice

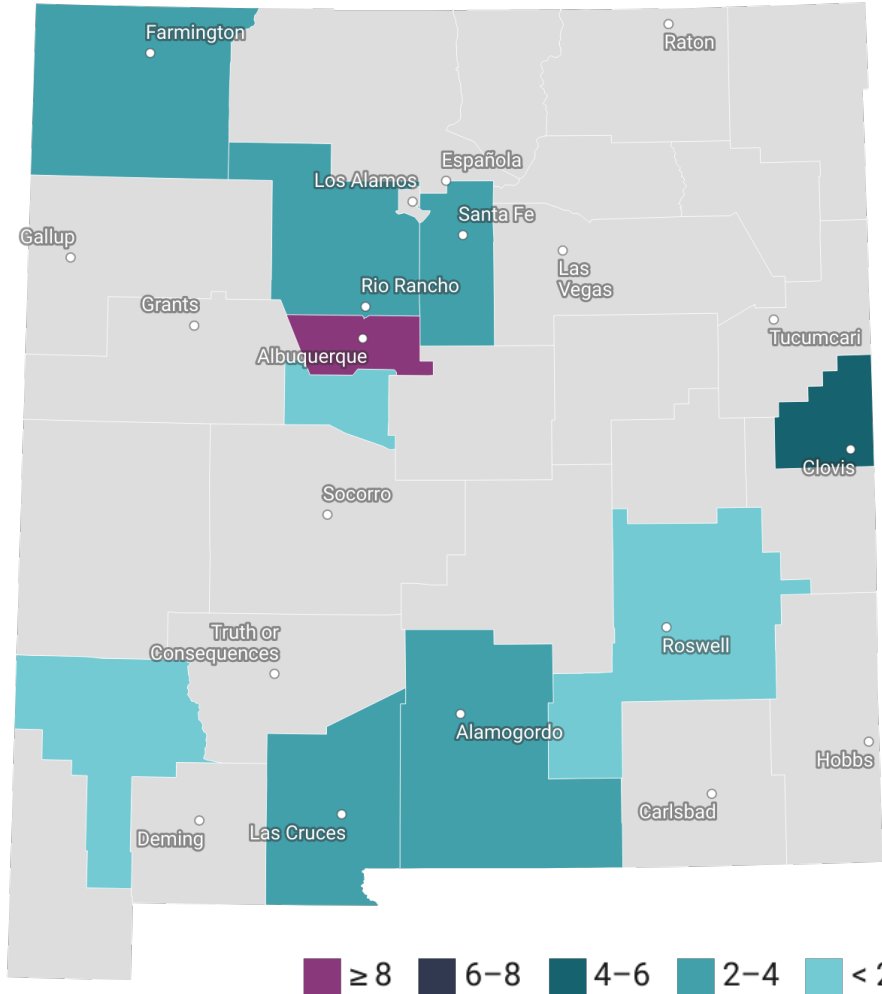


How useful were expert presentations to participant practice



Participants came from the following school districts:

Albuquerque	Clovis	Farmington	Las Cruces
Alamogordo	Cobre	Grady	Los Lunas
Bernalillo	Espanola	Hagerman	Rio Rancho



Early Indicators of Impact from Structured Literacy Implementation Pilot Program

37 participants; **12** NM School Districts; **10** NM Counties

Participants reported

- **45%** Knowledge Gain across all areas measured
- **100%** of participants implemented multiple strategies learned through the program

“The ECHO program solidified concepts I learned in LETRS and made the importance of structured literacy very clear. After I completed LETRS I was excited to implement what I had learned but was not 100% on how it should look. The ECHO program helped me bridge what I learned through LETRS training with information and resources.”

Increased teacher efficacy is linked to improved student outcomes

Student outcomes for this program will be measured in school years 2023-2024 and 2024-2025

Fall 2023 Structured Literacy Implementation Program

80 teachers
grades K-2

"The importance of assessment to drive my teaching is my biggest takeaway."

"My 2nd grade team struggles to create intervention groups. We stare at iStation results but we aren't convinced which pieces we should break kids into to strengthen their reading skills. Today we learned exactly which report to pull up and how to use it to create meaningful intervention groups."

"Children need to be explicitly exposed to high level language in context AND they need to actually use that language in context in order for them to acquire the high level language."

What our participant are saying...

“ This program gave me the excitement, changed my attitude towards my literacy block - new resources, new things to try out with students; a community to be able to talk to.”

~ Participant in Structured Literacy for the Classroom ECHO Program

“I feel that these sessions have provided very valuable ideas and resources that would be impactful in my school. I am a principal at a K-8 charter school that really stresses social emotional foundations to all our learning. Some of the resources I have been able to share and put into play right away.” ~ Participant in Educator Resilience through Social and Emotional Learning ECHO Program

“I really enjoy the sharing in the small groups. I get motivated to try something tomorrow.”

~ Participant in Elementary Math ECHO Program

“Thank you! I just love collaborating and sharing ideas. We all talked about lack of materials being a challenge, and you provided ideas (and resources) to help alleviate the problem. Very helpful – thank you” ~ Participant in STEM through Literacy ECHO Program

“I teach in a rural community so joining the sessions provided me with the tools I need to reach outside of my community to the different resources our state provides”

~ Participant in Educator Resilience through Social and Emotional Learning ECHO Program



Participant Level Interim Indicators for Impact on Students: Existing ECHO Education Programs



Implementing Strategies

% of Surveyed Participants implementing strategies learned through Program

100% Literacy

94% STEM



Knowledge Growth

% of Surveyed Participants reporting knowledge growth in program area averages all sessions

100% Literacy

72% STEM



Net Promoter Scores

of Surveyed Participants (ranges from -100 to 100, > 50 considered very high)"

84 Literacy

85 STEM



Enhancing and evaluating primary and secondary education—a major social determinant of health and a key driver of economic development in New Mexico: Improving Student Achievement with a Literacy Focus

FY25 RESEARCH AND PUBLIC SERVICE REQUEST

Problem Statement

38% of children are at or above proficient in reading at 3rd grade
(NMPED 2023)

19% of children are at or above proficient in math at 4th grade
(NAEP 2022)



DATA DRIVEN DECISION MAKING to increase equity: COEHS OUTCOMES Office

Primary activity of the OUTCOMES Office is to provide important and timely information for community members, educational leaders, university professors and policymakers regarding what is needed to reduce barriers and improve equity in New Mexico classrooms in multiple other ways.

Key data areas:

- 1) improve the curriculum and educational practices offered at UNM's College of Education and Human Sciences to ensure they are informed by best educational practice and are research-based,
- 2) inform the State of New Mexico to support educational policy development, such as shaping future revisions to educational standards and/or practices in Santa Fe as well as at other educational entities across the state, and
- 3) improve ECHO Education programs and ensure that they are truly meeting the needs of learners in New Mexico.

Workforce
Capacity
Building:
COEHS
OUTCOMES
Office

This proposal includes training the next generation of education researchers in the methods, analysis, and ethics of applied educational research.

We will establish a new Undergraduate Minor and Graduate Certificate in applied educational research including data science

Our goal is to increasing the workforce in New Mexico available to do this important work.

ECHO Education Program Focus: Teacher effectiveness

The single most important influence on student achievement

A more effective teacher can advance student learning by 1.5 years in a school year*

New Mexico educators are committed to their students' success

New Mexico kids can learn as well as kids anywhere



ECHO Education Program Focus Areas for increasing teacher effectiveness

Structured Literacy Implementation support for the classroom

A series of K-5 grade-level programs developed in collaboration with the Literacy and Humanities Bureau at NMPED and national literacy experts to support the classroom implementation of evidence-based science of reading practices.

Numeric Literacy

A series of programs for PK-4 – 6th grade teachers in developing their student's conceptual understanding of numbers and math. Evidence shows that developing conceptual understanding of math

Algebra 1

Algebra 1 is a gateway course for High School graduation, and ensuring effective instruction in this key course is important for increasing graduation rates in New Mexico

Science

The Next Generation Science Standards Elementary Science NM ECHO Program will train teachers in evidence-based content and pedagogical preparation for effectively implementing the Next Generation Science Standards,

ECHO Model: Make it Happen

Traditional Training

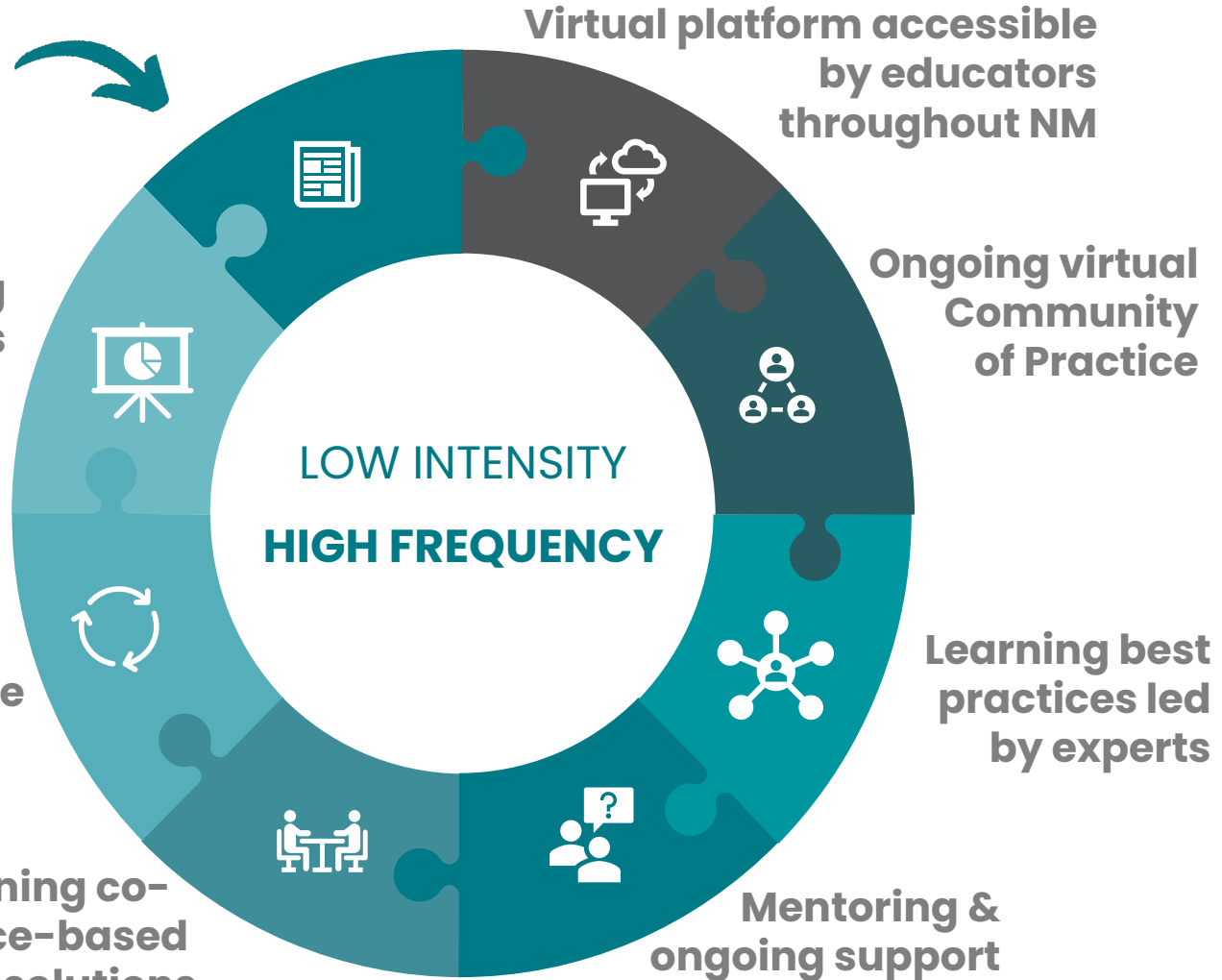


Evidence Based Best Practices

Measuring effectiveness

Feedback loops for guided iterative practice

Collaborative learning co-producing evidence-based locally responsive solutions



What are our anticipated outcomes?

Increase 3rd grade reading proficiency by 10 points: from 38% to 48%

Run 34 ECHO programs in key areas with a focus on literacy

Recruit 60 local and national experts to support high-quality ECHO PL programs for NM Teachers

- Recruit experts from UNM COEHS, NM Institutes of Higher Ed, NM School districts, and other state and national experts.

Impacting ~22,260 students per year

- Over 110,000 student years of learning impacted over 5 years
- Educators participating in ECHO implement best practices with fidelity to increase teacher effectiveness: current rate 94%

Increase alignment of curricula to research and evidence-based practices through the OUTCOMES Office

Reduce Teacher Burnout by 10%

ECHO participants gain knowledge and self-efficacy through expert mentorship, collaborative learning & virtual communities of practice

Reduce burnout

Enhance the quantity and quality of teacher residency programs in collaboration with COEHS and PED



540 ECHO Professional Learning sessions annually



1320 Participating educators in ECHO programs annually

Increase teacher retention by 10%

Access to effective mentorship through ECHO's trusted human network supporting teachers in implementing evidence-based best practices wherever they are.

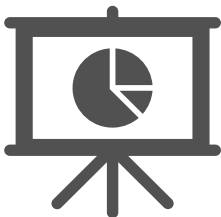
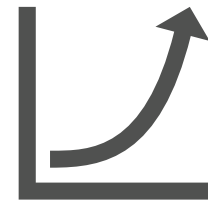
Increase resiliency of new teachers entering the workforce through research on programming such as Social Emotional Learning

Increase Data-Driven Practices, Programs and Policies in our Education System



Establish a new state resource for educational research and evaluation OUTCOMES Office

Increase in evidence-based best practices implemented in schools and educational system



Support data-informed decision making in curriculum, future professional development and support policy decision making

10% increase in diversity and people trained for educational research

Establish undergraduate minor and graduate certificate in applied educational research and/or data science in COEHS



Support state workforce in educational research and policy development

Supporting New Mexico educators throughout their career to improve student outcomes

- A combined proposal from the University of New Mexico's Project ECHO and College of Education and Human Sciences: One university committed to building and sustaining educators across their career
- FY25 Research and Public Service Project (RPSP) Request that is a part of the main University of New Mexico request
 - 5.6 Million in recurring funds for a joint initiative to support teachers - between Project ECHO serving teachers and University of New Mexico College of Education and Human Sciences
 - RPSP Title: Enhancing and evaluating primary and secondary education—a major social determinant of health and a key driver of economic development in New Mexico:
Improving Student Achievement with a Literacy Focus

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