PROJECT ECHO OVERVIEW

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HRSA Acknowledgment

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Project ECHO

- **Project ECHO** stands for Extension for Community Healthcare Outcomes.

- It's a collaborative model of medical education and care management that uses telemedicine to connect primary care providers with a team of subspecialty experts. The program's goal is to improve patient care outcomes and increase access to specialty treatment in underserved areas

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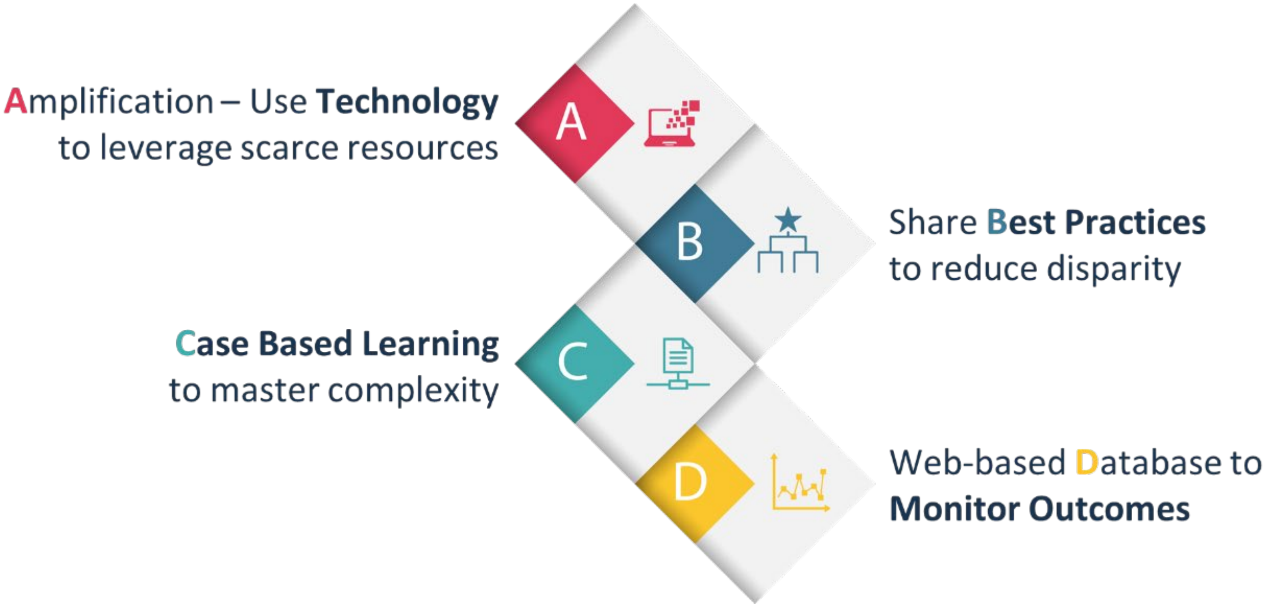
Anatomy of an ECHO
https://app.box.com/file/512281856823

What is the ECHO Model™?



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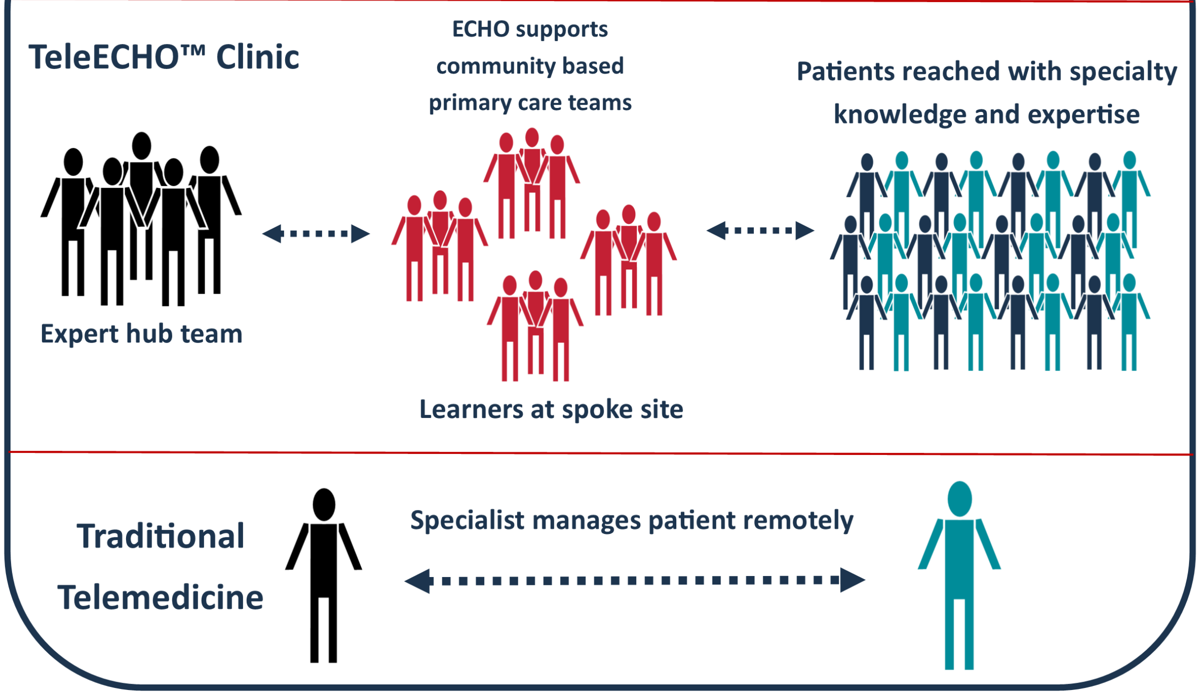
https://echo.unm.edu/img/echo-model.png

ECHO vs. Telemedicine



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The NEW ENGLAND JOURNAL of MEDICINE

ORIGINAL ARTICLE

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

Sanjeev Arora, M.D., Karla Thornton, M.D., Glen Murata, M.D., Paulina Deming, Pharm.D., Summers Kalishman, Ph.D., Denise Dion, Ph.D., Brooke Parish, M.D., Thomas Burke, B.S., Wesley Pak, M.B.A., Jeffrey Dunkelberg, M.D., Martin Kistin, M.D., John Brown, M.A., Steven Jenkusky, M.D., Miriam Komaromy, M.D., and Clifford Qualls, Ph.D.

ABSTRACT

BACKGROUND

The Extension for Community Healthcare Outcomes (ECHO) model was developed to improve access to care for underserved populations with complex health problems such as hepatitis C virus (HCV) infection. With the use of video-conferencing technology, the ECHO program trains primary care providers to treat complex diseases.

METHODS

We conducted a prospective cohort study comparing treatment for HCV infection at the University of New Mexico (UNM) HCV clinic with treatment by primary care clinicians at 21 ECHO sites in rural areas and prisons in New Mexico. A total of 407 patients with chronic HCV infection who had received no previous treatment for the infection were enrolled. The primary end point was a sustained virologic response.

RESULTS

A total of 57.5% of the patients treated at the UNM HCV clinic (84 of 146 patients) and 58.2% of those treated at ECHO sites (152 of 261 patients) had a sustained viral response (difference in rates between sites, 0.7 percentage points; 95% confidence interval, −9.2 to 10.7; P=0.89). Among patients with HCV genotype 1 infection, the rate of sustained viral response was 45.8% (38 of 83 patients) at the UNM HCV clinic and 49.7% (73 of 147 patients) at ECHO sites (P=0.57). Serious adverse events occurred in 13.7% of the patients at the UNM HCV clinic and in 6.9% of the patients at ECHO sites.

CONCLUSIONS

The results of this study show that the ECHO model is an effective way to treat HCV infection in underserved communities. Implementation of this model would allow other states and nations to treat a greater number of patients infected with HCV than they are currently able to treat. (Funded by the Agency for Healthcare Research and Quality and others.)

From the Department of Internal Medicine (S.A., K.T., G.M., P.D., S.K., D.D., B.P., T.B., W.P., M. Kistin., J.B., M. Komaromy) and the Clinical and Translational Science Center (C.Q.), University of New Mexico; and Presbyterian Healthcare Services, Adult and Geriatric Behavioral Health Clinic (S.J.) — both in Albuquerque; and the Department of Internal Medicine, University of Iowa, Iowa City (J.D.). Address reprint requests to Dr. Arora at Project ECHO, 1 University of New Mexico, MSC07-4245, Albuquerque, NM 87131, or at sarora@salud.unm.edu.

This article (10.1056/NEJMoa1009370) was published on June 1, 2011, at NEJM.org.

N Engl J Med 2011;364:2199-207.

- Started in 2003 at the University of New Mexico
- Founder – Dr. Sanjeev Arora
- **“She never said ‘no’ to anyone, whether they had money or not.”**

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Benefits of ECHO

- Distance “grand rounds-style” case-based learning **(FREE CE CREDIT)**
- Feedback through questions
- Refinement of teaching and presentation skills
- Decreased referrals of common problems to tertiary care center
- Increased referrals of difficult cases
- Potential increased referrals

ECHO Clinic

- Once a month or at the discretion of the ECHO Hub Team
- Zoom video conference platform
- Attendance via redcap
- **Topic -**determined by the Hub Team
- **Presenter -** each session – 15 minute talk

What Happens During an ECHO Clinic?

- Welcome and Introductions
- Agenda overview
- Didactic (10 to 15 minutes)
- Case presentations
  - Summary of Case
  - Clarifying questions
  - Recommendations
  - Summary of recommendations
- Closing Remarks

Anatomy of an ECHO https://app.box.com/file/512281856823

Project ECHO -Dentistry

Principal Investigator: Dr. Elizabeth Carr
Frequency: 4th Fridays of each month
Time: 12:00 p.m. CST – 1:00 p.m. CST
Method: Zoom Platform

2022 - UMMC Project Echo Pediatric Dentistry Participant Data

Session	# of Participants	# of Cases
April 2022 (Echo Launched)	21	1
May 2022	Session Postponed	Session Postponed
June 2022	18	1
July 2022	25	1
August 2022	41	1
September 2022	40	2
October 2022	38	1
TOTALS	183	7

2023 - UMMC Project Echo Pediatric Dentistry Participant Data

Session	# of Participants	# of Cases/Didactics
January 2023	32	1
February 2023	62	2
March 2023	51	3
April 2023	36	2
May 2023	Session Canceled	
June 2023	Session Canceled	
July 2023	31	1
August 2023	37	3
September 2023	46	1
October 2023	25	1
November 2023	No session will occur	
December 2023	No session will occur	
TOTAL	320	14

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2024 – UMMC Project Echo Pediatric Dentistry Participant Data

Session/Topic	# of Participants	# of Cases/Didactics
January 2024	43	0
February 2024	75	0
March 2024	40	1
April 2024	26	0
May 2024	No session will occur	
June 2024	Session Canceled	
July 2024		
August 2024		
September 2024		
October 2024		
November 2024	No session will occur	
December 2024	No session will occur	
TOTAL	**184**	**1**

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Featured Topics

- Caries Risk Assessment
- Fluorides
- Dental Treatment for Patients with Special Health Care Needs
- AI in Dentistry
- Head and Neck Cancer
- Market Forces in Dentistry
- Navigating Medicaid

Guest Speakers

- Dr. Thomas Salinas- Chair of Dentistry at the Mayo Clinic
- Dr. Carlo Ercoli- Chairman at University of Rochester Eastman Institute for Oral Health
- Sirene Garcia, MS – Chief Innovation Officer at Finger Lakes Community Health

UMMC School of Dentistry, Jackson, MS

PROJECT ECHO

Dentistry Hub

Tele- Dentistry

TARGET AUDIENCES

Pediatric Dentists
Dentists
Dental Hygiensists
Dental Assistants
Nurses
Primary Care Providers

Dentistry

REGISTER NOW

ECHO Session Zoom Link

Dentists/Assistants/Hygienists

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Nurses

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Meeting ID: 484 865 8739

Interested in Joining a Session?

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QUESTIONS

thank you