

UVA Project ECHO Vascular: Extending Community Health Outcomes in Rural Virginia

Kimberly Albero, MSN, RN, FNP-BC Program Manager, Project ECHO

# Introduction

- Ten Week Pilot Program
- APN Place funded by HRSA grant
- Vascular Disease



## Goals

✓ Increase Primary Care Provider Confidence in Treating Patients with Vascular Disease

Establish a Supportive Learning Community

 Connect Primary Care Providers with Specialists at University Health System



## **Needs Assessment**

Question: Please select which of the following areas you would find most useful for vascular disease training.	Respondent Interest
Clinical indications for further diagnostic testing	25%
The inflammatory process leading to vascular disease	30%
Clinical Practice Guidelines for Managing Vascular Disease	50%
Medication Review: prescription guidelines and side effect	25%
Access to Care for Patients without Insurance	10%
Referral Process and Community Resources	30%

## **UVA NURSING**

# **Didactic Topics**

Торіс	Speaker
Introduction to UVA Project ECHO Vascular	Kimberly Albero, MSN, APRN, FNP-BC
	UVA Project ECHO Program Manager
Overview of Heart Failure Management for	Craig Thomas, MSN, ACNP, CHFN
the Community Primary Care Provider	UVA Heart Failure Clinic
In Home Visit by Specialty Trained Nurse's	Craig Thomas, MSN, ACNP, CHFN
Aides Improves All Cause Readmission in	UVA Heart Failure Clinic
Heart Failure Care	
mHealth Application in the Management of	David Cattell-Gordon, MS, LSW
Vascular Patients in the Community	Director of Telemedicine
iTreat: Pre-hospital Stroke Assessment	Andy Southerland, MD
Capabilities Using Telehealth Technology	Neurologist
Radiologic Assessment of the Acute Stroke	John Gaughen, MD
Patient	Neuroradiologist
Acute Stroke Assessment for the Primary	Jimmy V. Berthaud, MD, MPH
Care Nurse Practitioner	Pediatric Neurologist
Pharmacologic Management of Vascular	Donna White, RPh, CDE, BCACP
Disease	Clinical Pharmacologist
Hot Spotting in Primary Care Treatment of	Rebecca Bates, DNP, APRN, FNP
Patients with Vascular Disease	Adams Compassionate Healthcare
	Network





## Reach

- Culpeper
- Reston
- Charlottesville
- Williamsburg
- Bland
- Wise
- Manassas

430 Miles10 Sites30 Providers8 Students



## **WVA NURSING**

# Anatomy of the ECHO



Enter details

Introductions 3-5 min

### Didactic Presentation 20-30 min

### Case Presentation 5-10 Minutes

### Case-Based Learning 20 Minutes

**UVA NURSING** 

### Recommendations for Replication Start early with communication

- Build from existing relationships
- Cast the recruitment net wide
- Market to community providers
- Engage specialists at the hub
- Schedule speakers and case

presenters





ECHO<sup>®</sup>

In the U.S. and around the world, people are not getting access to the specialty care they need, when they need it, for complex and treatable conditions.

#### Moving Knowledge, **Not Patients**

Through technology-enabled collaborative learning, ECHO creates access to high-quality specialty care in local communities.

Hub and spoke knowledge-sharing networks create a learning loop:

Community providers learn from specialists.

Community providers learn from each other.

Specialists learn from community providers as best practices emerge.

#### **Doing More for More Patients**



#### PATIENTS

- Right Care
- Right Place
- Right Time



#### COMMUNITY

Reduce Disparities

NATIONAL

- Retain Providers Keep Patients Local
- **SYSTEM**
- Increase Access
- Improve Quality
- Reduce Cost





#### GLOBAL

- Operating 86 hubs in more than 13 countries and growing Goal of touching 1
- billion lives by 2025

Are you a part of the ECHO?

www.echo.unm.edu | ProjectECHO@virginia.edu

## **Flyers**

- Emails
- **Calendar Invites**
- Zoom
  - Reminders



#### Treat More Patients Build Community of Practice

#### **Changing the World, Fast**



- Expanding to more community clinical sites CME credits provided for
- free via ECHO-operated clinics

**PROVIDERS** 



### Operating in 30 states and growing



# **Ideas for Future Clinics**



- Substance Use Disorder
- Neonatal Abstinence Syndrome
- Transgender Care
- Endocrine
- Pain Management
- Infectious Disease
- Behavioral Health, ADHD, Autis

## **WVA NURSING**

**"Participation in Project ECHO** has helped guide my thinking when it comes to assessment and management of patients who need specialty care."

- FAMILY NURSE PRACTITIONER



The University of Virginia Medical Center













### Carolyn's iPhone

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### UVA Project ECHO Vascular: Extending Community Health Outcomes in Rural Virginia

#### Kimberly Albero, MSN, FNP-BC and Patty Schweickert, DNP, FNP-C

The University of Virginia Health System & The University of Virginia Karen S. Rheuban Center for Telehealth

#### BACKGROUND

- Lack of rural and underserved community specialty care access due to specialist shortages and geographic barriers creates health care disparities & poor health outcomes
- Project ECHO<sup>™</sup> is a hub-and-spoke model of medical education enabling exponential increase in knowledge from specialist experts to primary care providers by way of a multi-point videoconferencing network enhanced grand rounds style virtual clinic
- Democratizes knowledge & enables primary care providers to gain specialized knowledge & better manage complex patients in their own communities, decreasing health care disparities
- UVA Project ECHO Vascular provides an opportunity for primary care providers in Virginia to learn from vascular specialists

#### PURPOSE and METHODS



- The purpose of this poster is to present a formative program evaluation of the 10-Week Pilot UVA Project ECHO Vascular Telementoring Program using the RE-AIM framework
- Fundamental program elements focusing on achieving external validity to improve sustainability and effective program implementation were evaluated
- APN-PLACE Program community invited to participate in UVA Project ECHO Vascular

RESULTS		
REACHING TARGET POPULATION EFFECTIVENESS ADOPTION BY TARGETED STA	FF IMPLEMENTATION MAINTAINANCE	
<ul> <li>APN-PLACE Preceptors &amp; UVA Vascular Experts invited to participate</li> <li>Participants invited via videoconferencing, in-person, email, &amp; phone</li> <li>Introductory meeting held three times</li> <li>Preceptors and students invited to participate in telementoring</li> <li>25 spoke participants including APRNs, FNP &amp; BSN students</li> <li>Vascular experts invited to provide guidance and mentoring during case-based learning &amp; to present educational lectures</li> <li>8 hub participants including MDs, APRNs, RPh, M.Div</li> </ul>	PILOT PROGRAM DESIGN         • Quasi-experimental one group pre-post test design         • UVA Social-Behavioral IRB approval         • APN-PLACE preceptors & vascular experts invited         • Needs assessment survey to assess provider interest and learning needs conducted         Image: Design of the image of	
<ul> <li>Spoke participants encouraged to present cases from their own practices to personalize case-based learning experiences</li> <li>Spoke participants complete needs assessment and surveys</li> </ul>	PRESENTATION TOPICS	
<ul> <li>Weekly one hour VTC using Zoom Platform during convenient time to maximize participation</li> <li>30 minute didactic presentation by hub expert clinician followed by case presentation by community provider with input from hub and spoke participants</li> </ul>	Topic         Speaker           Introduction UVA Project ECHO Vascular         Kimberly, Albero, MSA, APRN, FNP-8C UVA Project ECHO Prazm Management for Crait Bronas, MSM, ACPN, OFN the Community Primary Care Provider         Crait Bronas, MSM, ACPN, OFN UVA Heart Tailure Cinic           In Home Visit by Speciality Trained Nurse's         Crait Bronas, MSM, ACPN, OFN UVA Heart Tailure Cinic           Heart Salarie Care         David Cattell-Gordon, MS, LSW Visicular Enders in the Cammarity         David Cattell-Gordon, MS, LSW Visicular Tablebath Threbodem           Craits Introduction         Management of Visicular Tablebath Tablebath         David Cattell-Gordon, MS, LSW Visicular Tablebath Tablebath	
<ul> <li>Post-survey will assess program effectiveness and solicit input for ongoing telementoring opportunities and topics of interest</li> </ul>	Lasticities using termination termination and the Acade Strate Present Academic Conference on the Acade Strate Neuroscientification Mon Acade Strate Assessment for the Primary Care Neura Practicities Pharmacologic Management of Vacular Densa White, BBJ, CDE, BLACP Dessa Barry Care Treatment of Net System Care The Strate of Neuroscience of the Strate	
APN PLACE is funded through a grant from the US Methh Resources Services Administration and supported by the QII Demninon University School of Neuring Juong with The University of Service Access Constraints of Evidenth		



The University of Virginia Medical Center