

# Project ECHO®

(Extension for Community Healthcare Outcomes)



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The mission of **Project ECHO®** is to expand the capacity to provide best practice care for common and complex diseases in rural and underserved areas and to monitor outcomes.

# The Origin of ECHO: HCV

- 170 million people infected
- In New Mexico more than 35,000 infected
- In 2004 less than 5% had been treated
  - 2,300 prisoners with infection: none were treated
- Curable
- Treatment was highly toxic
  - Side effects similar to chemotherapy
- No primary care physicians treating

# Goal of Project ECHO

## *Force Multiplication*

### Logarithmic Expansion in Capacity to Deliver Best Practice Care for Underserved Populations

- Develop capacity to safely and effectively treat 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™:**

**1) Technology**

**2) Disease Management Model**

**3) Case-based Learning**

**4) Rigorous Evaluation of Outcomes**



ECHO Whale



PCA Española



Baton Rouge



Pecos Valley MC



DOH Las Cruces



SBRT-First Choice South Va

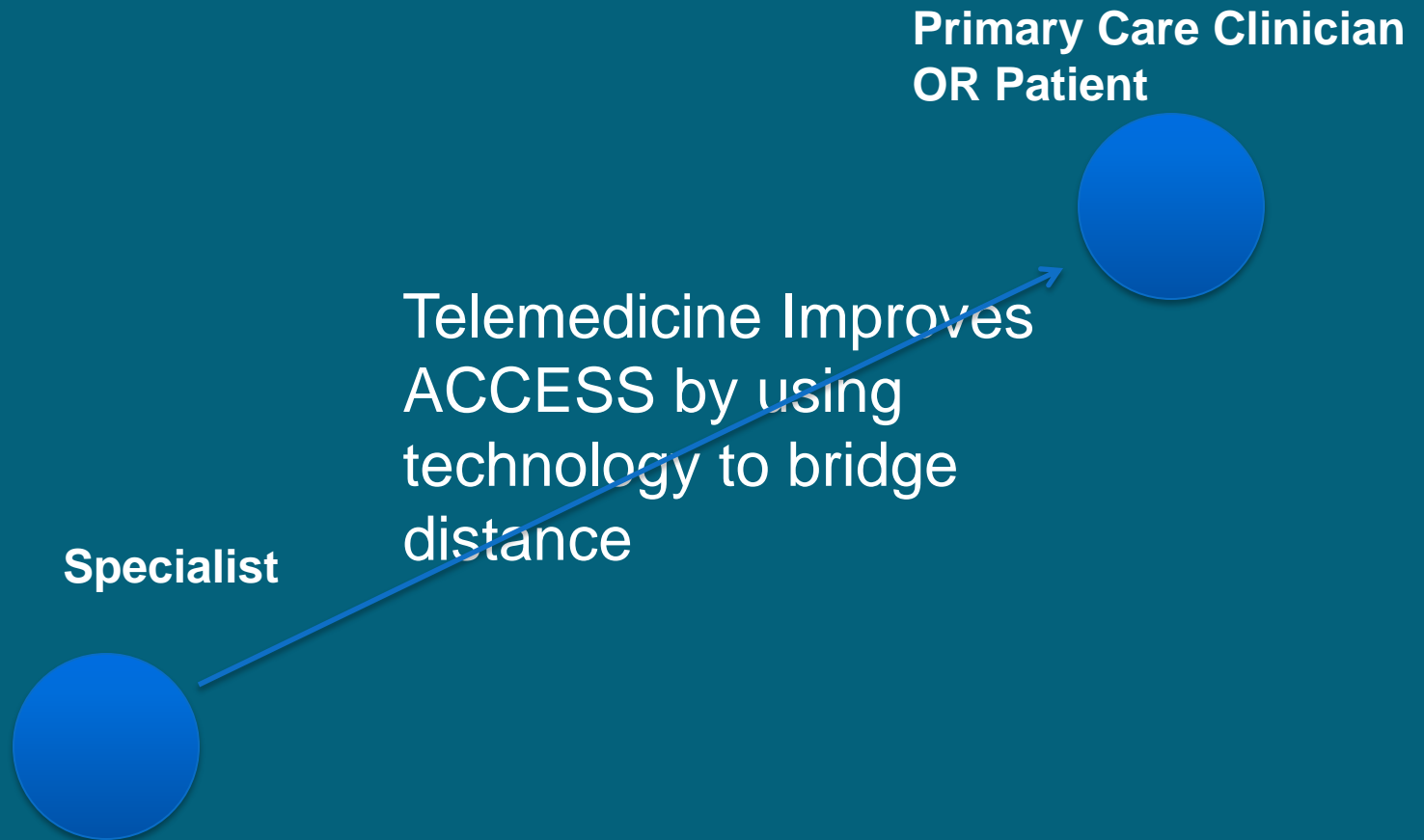


Memorial HDX7000

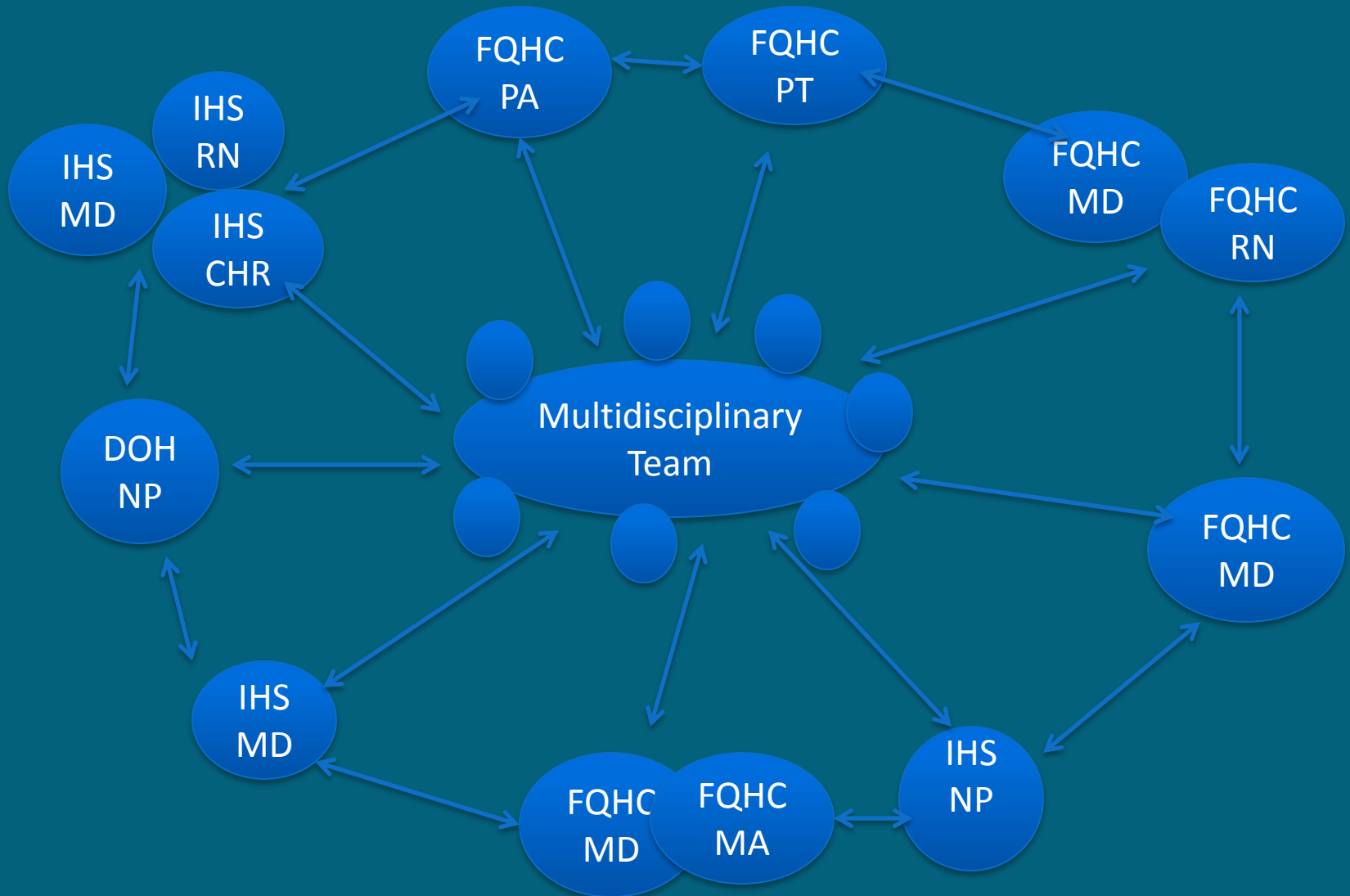


LAS VEGAS ECFH

# How is ECHO model different from telemedicine?



# The ECHO model improves CAPACITY and ACCESS simultaneously



# Hepatitis C Care Delivered Under the ECHO Model is as Safe and Effective as that Given in a University Clinic

<b>Outcome</b>	<b>ECHO</b>	<b>UNMH</b>
	N=261	N=146
<b>Minority</b>	68%	49%
<b>SVR* (Cure) Genotype 1</b>	50%	46%
<b>SVR* (Cure) Genotype 2/3</b>	70%	71%

\*SVR=sustained viral response

NEJM : 364: 23, June 9-2011, Arora S, Thornton K, Murata G

# Disease Selection Criteria

- Common diseases
- Management is complex
- Evolving treatments
- High societal impact
- Serious outcomes if untreated
- Effective treatment available

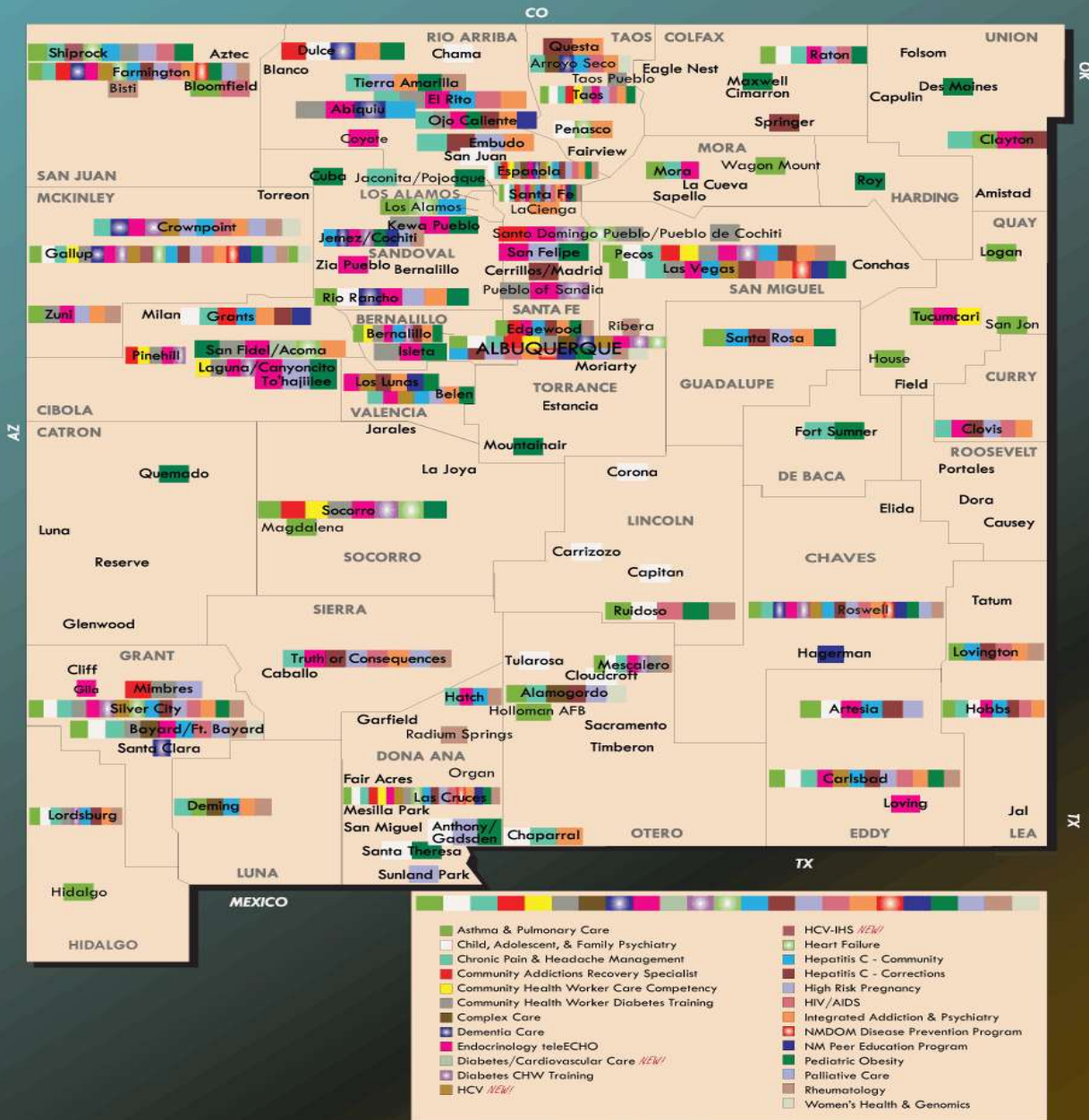
## TeleECHO Clinics in New Mexico

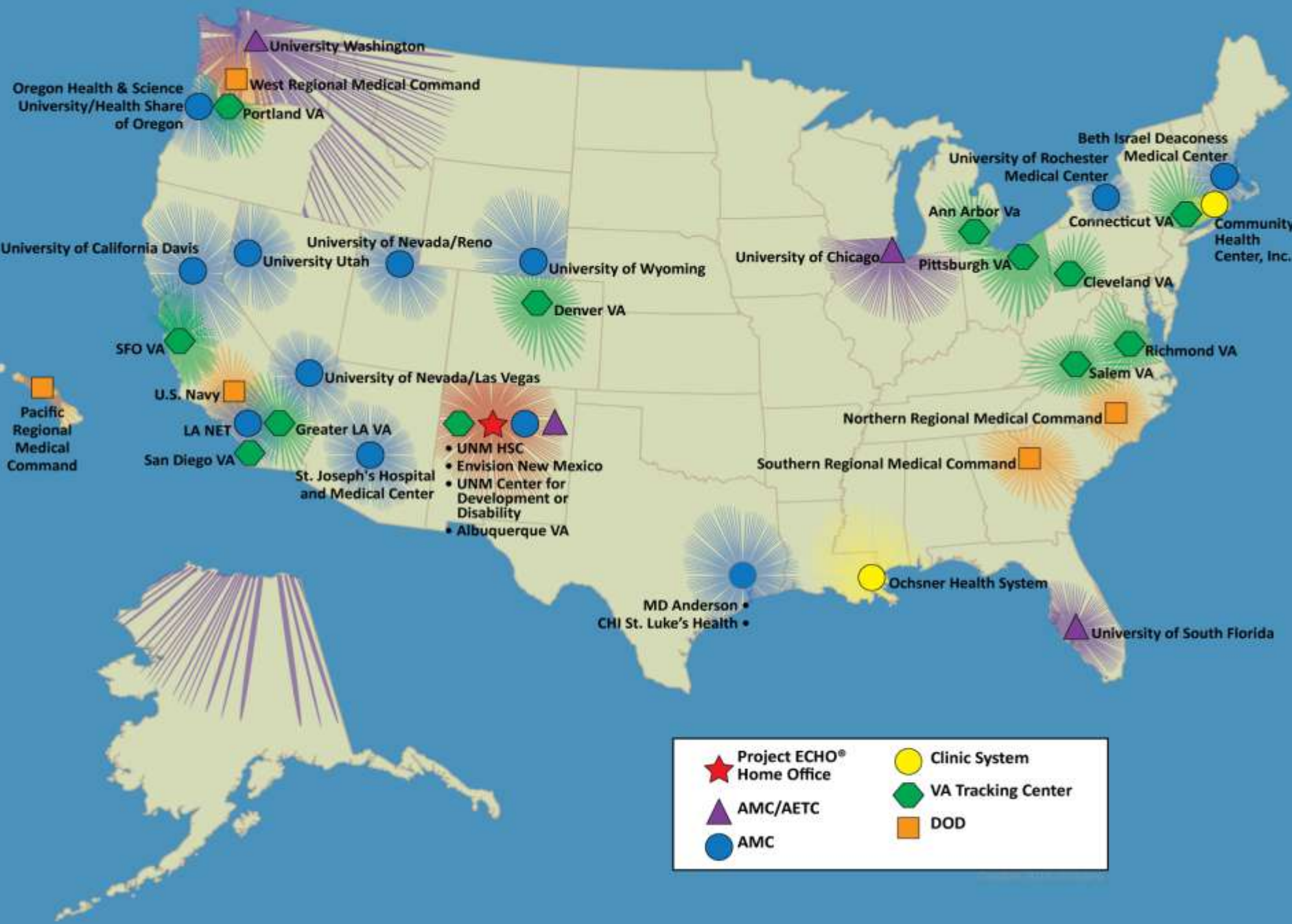
- 10 weekly ECHO initiatives currently operating
- All include a diverse group of healthcare professionals and learners
  - Primary Care Physicians, Nurses, Nurse Practitioners, Physician Assistants, Pharmacists, Behavioral Health Providers, Community Health Workers, Prison Peer Educators



# Prisoner Health is Community Health







- UNM HSC
- Envision New Mexico
- UNM Center for Development or Disability
- Albuquerque VA



# ECHO Replication Sites Worldwide:

- **National AIDS Control Organization and Maulana Azad (HIV)** – New Delhi, India
- **Institute of Liver and Biliary Sciences (HCV)** – New Delhi, India
- **Universidad de la Republica (Liver Disease)** – Montevideo, Uruguay
- **West/North West Hospitals Group (Diabetes)** – Galway, Ireland
- **ECHO Ontario (Chronic Pain)** – Queens University & University of Toronto Ontario, Canada
- **Northern Ireland Hospice (Hospice Care)** – Belfast, NI
- **National Institute for Mental Health Services (NIMHANS) (Mental Health and Drug Addiction)** – Bangalore, India

# Benefits of the ECHO Model

- Increase access to quality healthcare
- Reduce disparities
- Workforce training and force multiplier
- Demonopolize knowledge
- Cost effective care
- Prevent cost of untreated disease