New Mexico Health Information Collaborative NMHIC:

New Mexico's Health Information Exchange (HIE) Network and Telehealth







September 5, 2013

Dale C. Alverson, MD

Medical Director, Center for Telehealth and Cybermedicine Research, University of New Mexico Chief Medical Informatics Officer, LCF Research
Chairman, New Mexico Telehealth Alliance

Insurance Coverage for Telemedicine Services
Passed and Signed into Law
2013

Introduced by:
Sen. Jerry Ortiz y Pino (D)
and
Rep. Stephen Easley (D)

SENATE BILL 69
HOUSE BILL 171

New Mexico Telehealth Act
Passed and Signed into Law
2004

Introduced by:

Rep. Danice Picraux(D)

and

Supported by

Sen. Susan Wilson-Beffort (R)

HOUSE BILL 581
46TH LEGISLATURE - STATE OF NEW
MEXICO

Telemedicine and Health Information Exchange (HIE)

- Telemedicine creates the "virtual" consultation and provision of service between providers and patients = access to care
- HIE creates the consolidated "virtual" medical record about the patient from a variety of electronic health records and sources = access to the patient's health information
- HIE is Complimentary to Telehealth

Health Information Exchange (HIE)

- An HIE Solution brings health information systems together across regions and states in order to provide access to a patient's information in one centralized record.
- Agnostic to the individual electronic health record (EHR)
 of a health organization or practice
- Multiple healthcare providers with access to the same record of clinical information will make healthcare delivery more robust and efficient with improved continuity, better outcomes, and reduced cost.
- There are significant benefits to patients, healthcare providers, payers and employers.



Core HIE Functions

Provides access to a current patient summary from a variety of sources (From Where and When):

- Problem List/Diagnosis
- Medications
- Immunizations
- Allergies
- Procedures
- Lab Data
- Radiology Data
- Encounter Summaries



Why is the Portal accessed?



- New patient, not seen before
- Infrequent patient
- Patient known to have received care elsewhere
- Complex patient
- Tracking of patient
- Patient ER visits and hospital stays
- EHR is unavailable
- Remote Access
- Disaster Access



^{*}source NMHIC

Value/Benefits of HIE

- Access to each patient's health information with patient consent
- The patient doesn't have to keep remembering and repeating their health history
- Improved "situational awareness" regarding patient's health and use of health systems, better coordination of care
- Better evaluation capability and improved efficiency in making diagnosis and management plans
- Decrease unnecessary duplication of tests
- Readmission avoidance
- Data Analytics: Public, Population, and Community Health
- Supports the Patient Centered Medical Home (PCMH)
- Integrates into Accountable Care Organizations (ACO)

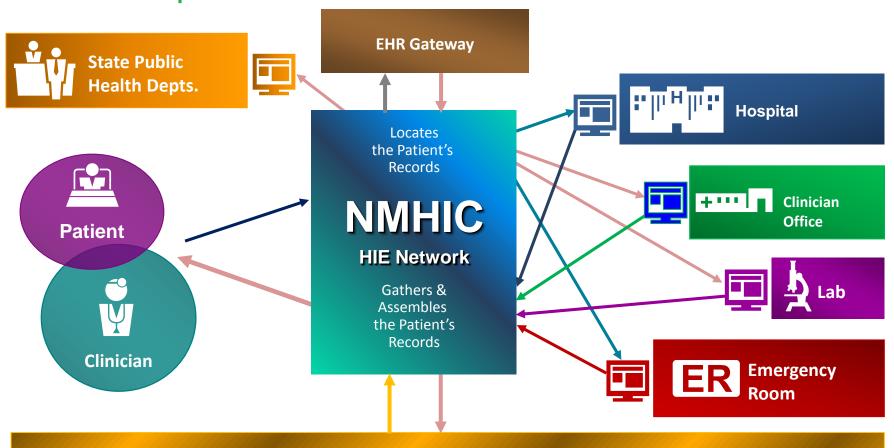


New Mexico's HIE:

New Mexico Health Information Collaborative (NMHIC)



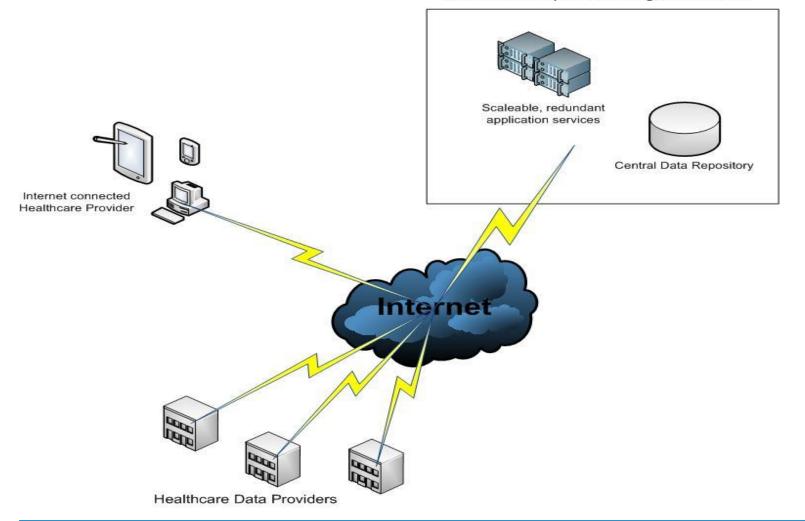
Clinician Requests Access to Patient Records with Patient Consent



eHealth Exchange (previous NwHIN)

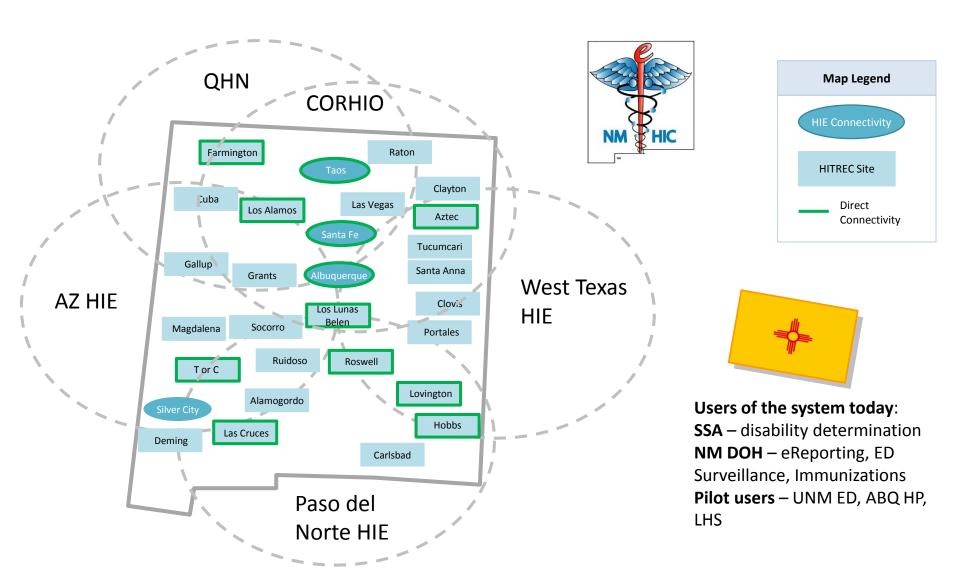
Cloud Based

Dedicated physically secure facility with redundant power, cooling, and network





Network of HIE Networks



TELEHEALTH CFTH CURRENT PROGRAMS

- SRMC Telehealth Consults
 - UNMH Pediatric ED
 - UNMH Psychiatry PES
 - UNMH Neurology
- Child Ready Grant: State-wide Communities & Hospitals Ped Emergency Medicine (Dr. Sapien)
- United Healthcare Telehealth Pilots
- Ped ICU to SJRMC

- Post Traumatic Brain Injury (Dr. Mark Pedrotty/CTH)
- Tele-Stroke Contract
- Dermatology (under development)
- Cancer Center
 - Tumor Board Las Cruces
- Audiology











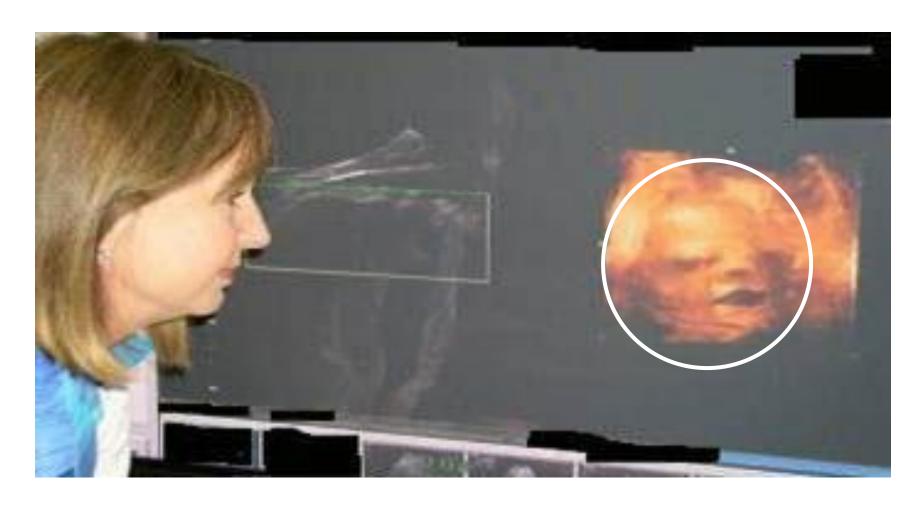








Direct Patient Care

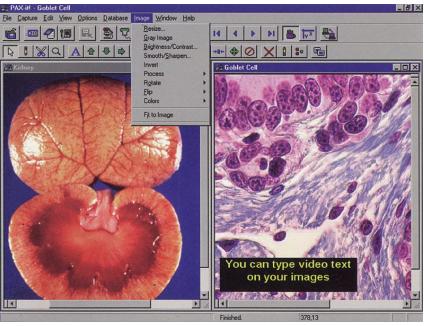


Maternal Fetal Medicine-High Risk Pregnancy

"Store and Forward"

- Capturing an image and storing it to then be forwarded for review by a medical specialists
- Examples include teleradiology, tele-pathology and tele-dermatology, tele-ophthalmology (retinal scans)





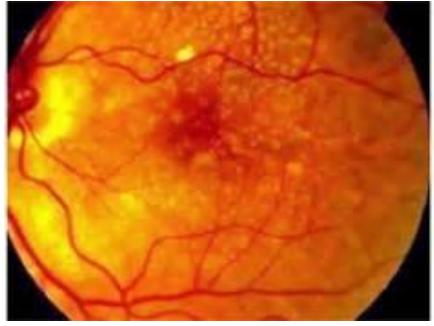
Teleradiology and Image Transfer

Web-Based Portals

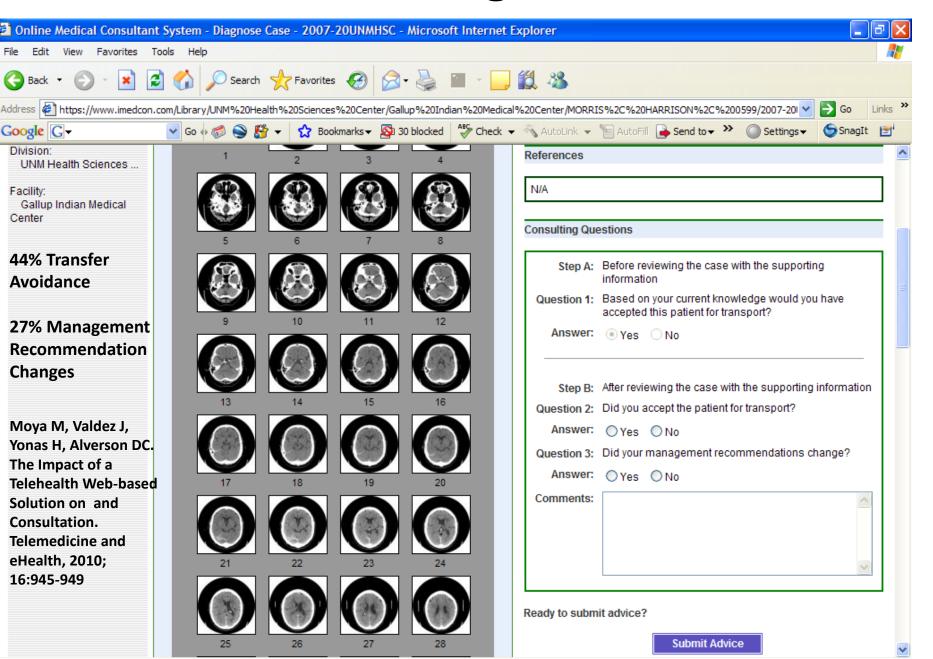
Diabetic Retinopathy **Retinal Scans:** Telemedicine or Health Information?







Trauma Triage



CFTH OTHER SPECIAL PROJECTS

- Molina Community
 Connector Project (OCH)
- FCC Southwest Telehealth Access Grid (\$15.4 million)
- Legislation: SB69 2013
 Reimbursement
- Cimarron Clinic/Child Psych-Resident Training

- Truman Clinic/HIV-AIDS Counseling
- Native American/Navajo
 Nation
 - US Ignite/Telehealth to the Hogan
- Pine Hill Medical Center
- Congressman Rep. Ben Ray
 Lujan Town Hall Video
 Conferencing (9 Northern NM sites)



The New Mexico Telehealth Alliance

Telehealth Alliance "Networks of Networks"

- Represents a consortium of public and private health care stakeholders: "Neutral Territory" (501c3)
- Reflects the diversity of our health care delivery system in **New Mexico**

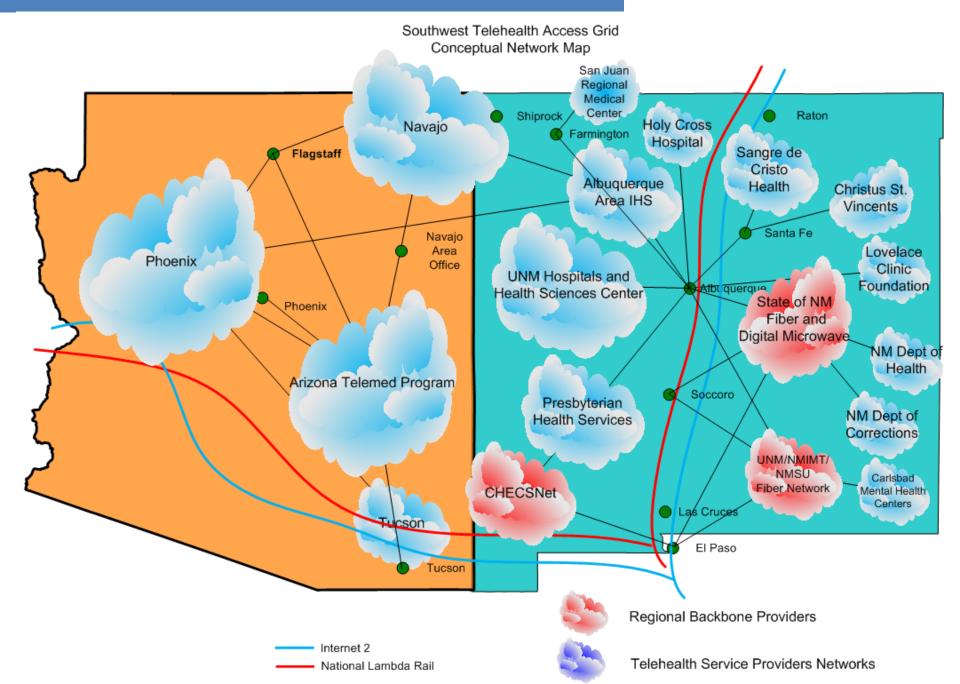
- **√Providers**
- ✓ Consumers
- ✓ Telehealth **Expertise**
- ✓ Communication **Networks**
- **✓Social Networks**



Enables collaboration

http://www.nmtelehealth.org/AboutUs/

SWTAG is a "Network of Networks"





Telehealth Toolkit



SaaS (SIP) Vidyo



Skype



Videophone (H.324)



Software IP Based (H.323)



Desktop IP Based (H.323)



Small Conference Room IP Based (H.323)

Hand Held Devices- "mHealth"



BlackBerry

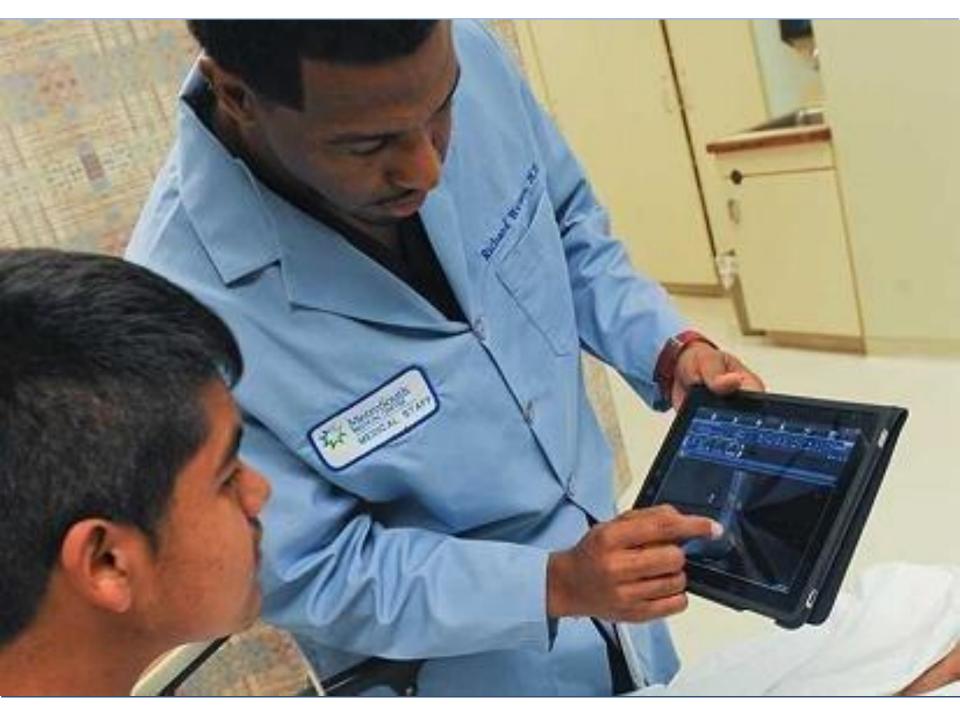


Treo/Palm

Smart Phones



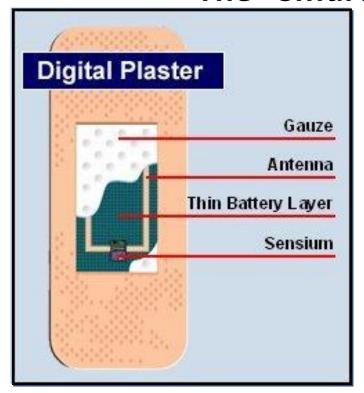


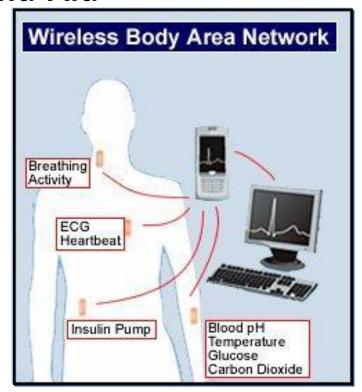


Remote Monitoring

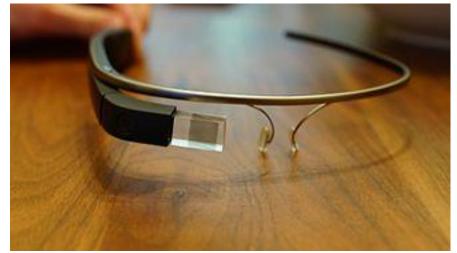


The "Smart Band-Aid"





"Google Glass"



Rafael Grossmann, MD, FACS at Google Glass's first surgical appearance



Tele-mentoring, Tele-Supervision, Teaching & Training

Telemedicine and HIE

 Together they create a powerful set of complimentary tools in providing "virtual" care, improved ability to diagnose, treat and manage patients directly or through consultation with other providers

 Together they reflect an interaction similar to physical face-to-face interactions between providers and between providers and patients

Telemedicine and HIE

- The integration of Telemedicine and HIE :
 - improve the continuity and coordination of appropriate comprehensive care for both diagnostic evaluation and management,
 - decrease unnecessary variations in care,
 - > improve efficiencies in care,
 - avoid unnecessary duplication of tests or procedures,
 - > reduce the need for higher cost services and hospitalization.
- When combined and effectively integrated they can be both complimentary and synergistic and become important components of an evolving healthcare environment
- Providing the right care, at the right place, at the right time to all New Mexicans across the State.

New Mexico Legislative Requests

- Officially recognize NMHIC as statewide HIE with which HCP organizations and Payers are expected to participate
- Officially recognize the New Mexico Telehealth
 Alliance as the state-wide resource center for
 Telehealth as replacement for the Telehealth/HIT
 Commission
- Develop State-wide Telehealth Fund/Grant Program
- Develop Matching Funds Pool for eligible participants; FCC HCF and USDA DLT

Questions?



http://www.lcfresearch.org/

http://som.unm.edu/telehealth

http://www.nmtelehealth.org/