

NUNMC Team



Angela Williams PhD, FNP-C PROJECT COORDINATOR

Project Coordinator and Nurse Practitioner for the NUNMC. She is a nationally certified nurse practitioner and clinical nurse leader. She has over 25 years of clinical experience with underserved populations. She is a tenured track Assistant Professor at California State University, Los Angeles.



Arneta Finney, PhD, FNP-C PROJECT MANAGER

Project Manager for the NUNMC. She holds a doctoral degree in nursing and national board certifications as a nurse practitioner, wound care specialist and clinical nurse leader. She has presented at national and international conferences and has published in data-based articles in high impact professional journals.



Gloria J McNeal, PhD, FAAN PROJECT DIRECTOR

Dr. McNeal is a nationally certified advanced practice nurse with more than 30 years of academic and clinical experience in nursing. She is widely published in the field of nursing on issues related to cultural competence, telehealth care, and the utilization of interdisciplinary primary care delivery models.



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Objectives

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To prepare a culturally competent health professions workforce

To foster community involvement and empowerment in the processes of health education, assessment, outcome reporting, and referral To improve access to care and to remotely monitor clinical data



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- The National University Nurse-Managed Clinic – Interprofessional Collaborative Practice (NUNMC-IPCP) initiative was operationalized at the National University Los Angeles Campus, serving as the home office location.
- The targeted patient populations residing in Watts, Inglewood and Compton experience high rates of serious chronic and acute health problems with notable poor healthcare outcomes.
- While there is an existing network throughout LA County of community-based health centers, federally-qualified health centers, and hospital-based clinics, the communities served remained designated as a medically underserved area/



ABOUTUS

Embedded within churches, drug rehab centers and Salvation Army locations, NUNMC created public-private partnerships and a unique model of care delivery



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THE PROBLEM



PRIMARY CARE SERVICES Deliver primary and behavioral health care services in underserved communities

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TELEHEALTH

While still limited in use virtual platforms are revolutionizing the delivery of healthcare and education



TRUST

Establish relationships with communitybased organizations to create a sense of trust



COST

Implement a nurse-led initiative to delivery cost effective services



IPE

Despite repeated reports on the advantages of IPE, there remains few opportunities for students in the academic setting



THE SOLUTION



IMPROVE ACCESS

This nurse-led clinic improved access by delivering care deeply embedded in the communities havra



DECREASE COSTS

This nurse-led clinic innovatively delivered care at no cost to the patients served



PATIENT EXPERIENCE

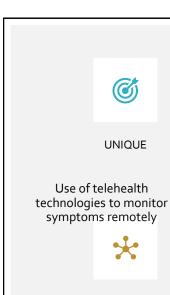
Using CHAPS survey data, this initiative documented the satisfaction levels of the patients served rating the experience at the highest levels



The goal of the IHI Quadruple Aim is to enhance patient experience, improve population health, reduce costs, and improve the work life of health care providers, including clinicians and staff.

Provident, I.M., & Lape, J.E. (2020). Demonstrating Occupational Therapy's Distinct Value: Addressing the Quadruple Aim of Health Care Through Doctoral Capstone Projects. The Open Journal of Occupational Therapy, 8, 1-8.







Establishing a nurseled telehealth model of care delivery



COMMITMENT

Our interprofessional team is committed to addressing the health care needs of the underserved



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TRUSTED

Nurses remain the

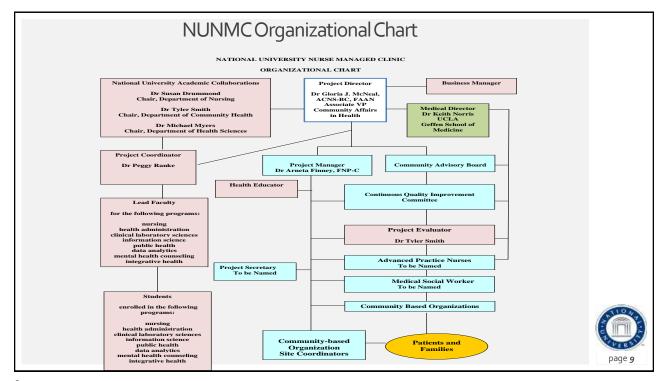
most trusted profession

according to WHO



Bringing health education directly to the community: nutrition, stress management, HIV testing, vision and hearing, blood pressure screening







PROJECT TIMELINE

Phases of Project Development



Project Outcome Measures:

- Decrease in mortality/morbidity rates associated with ambulatory care sensitive (ACS) conditions in clients served as measured by clinical data;
- Increase in referrals for follow up care as measured by percent of return visits;
- Increased community involvement as measured by number of MOUs executed;
- Increased patient satisfaction as measured by surveying instruments; and,
- Increased dissemination of health information as measured by number of health packets distributed



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NUNMC-IPCP OUTCOME MEASURES

The NUNMC outcomes measured with well-established, valid and reliable instruments:

- Biometric data derived from the EHR (BMI, blood pressure, pulseox, blood glucose),
- Clinical data to assess changes in chronic diseases
- Self-reported (SF-8, Audit-C, DAST 10, PHQ-9)
- Clinician/Group-level Consumer Assessment of Health Care Providers and Systems (CG-CAHPS) surveying instrument used to measure satisfaction with health care delivery
- ACE-15 to assess team readiness



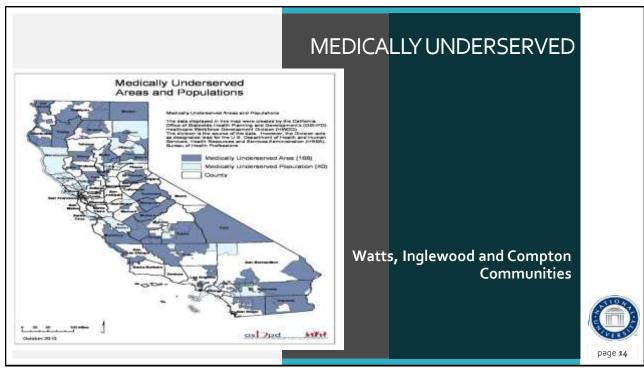
NUNMC INTERPROFESSIONAL COLLABORATIVE PRACTICE ACTIVITIES

• The NUNMC-IPCP initiative:

Is cost effectively utilizing faculty-supervised nursing and health professional students

Collaborates with a full-time interprofessional healthcare team, consisting of eight healthcare disciplines: nursing, public health, information science, mental health counseling, data analytics, allied health, health administration, integrative health programs of study

Works in collaboration with a Community Advisory Board, CBOs, faculty and students in departments of nursing, community health and health sciences



WATTS COMMUNITY DEMOGRAPHICS



The Los Angeles campus of National University is nestled in the South Los Angeles area of the county, which is the large geographic and cultural community lying to the south and southeast of downtown Los Angeles, California. The area has the highest concentration of racial/ethnic minorities, is a significantly distressed region with a high crime rate, and is the most socioeconomically disadvantaged neighborhood in all of Los Angeles County. Sitting within the county's South Central Los Angeles area is the small community of Watts. According to recent U.S. Census Bureau data there are 36,815 people residing in Watts, an area of 2.12 square miles, with a density of 17,346 people per square mile, among the highest in the nation. Ethnically, the residents of Watts are 61.6% Hispanic/Latino, 37.1 % African American, 0.5% White, and 0.2% Asian American. The median household income is \$25,161 with only 2.9% of the residents over 25 years of age holding a fouryear degree (Mapping LA, 2013).



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COMMUNITY ENGAGEMENT

The Tree of Life Missionary Baptist Church seeks to provide ministry that will improve healthcare to the impoverished, vulnerable, publicly insured and under or uninsured people without access to care in the South Los Angeles area. Through the efforts of the Church, the South Los Angeles community is provided with improved health care that is networked to build capacity. The Church is focused to strengthen access to primary and preventive care, health promotion and education to ultimately address health disparity now, and in the future. The Church will partner with the NUNMC team to identify patients and families in the Watts neighborhood in need of primary care services.



COMMUNITY ENGAGEMENT

<u>Canon Human Services</u> is a substance abuse treatment center that provides both outpatient and short-term residential treatment of drug addiction. Multiple payment plans are available including military insurance (e.g., VA, TRICARE); self payment; and sliding fee scale (Fee is based on income and other factors)



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COMMUNITY ENGAGEMENT

The Salvation Army, an international movement, is an evangelical part of the universal Christian Church. Its message is based on the Bible. Its ministry is motivated by the love of God. Its mission is to preach the gospel of Jesus Christ and to meet human needs in His name without discrimination. For more than 125 years, The Salvation Army of Southern California has provided services and hope to those in need from San Luis Obispo to Orange County. The Salvation Army's history of public service dates back to 1865, over the years it has since evolved into a social service provider of unmatched scope and breadth - delivering assistance to those in need without discrimination. The Salvation Army currently has representation in more than 125 countries worldwide, in addition to nearly 8,000 tenters of operation across the United States.



COMMUNITY ENGAGEMENT

Healthy African American Families II (HAAFII) was founded in 1992 by the late Dr. Loretta Jones. It was originally funded by the Center for Disease Control (CDC) to investigate low birth weight and infant mortality in African American women in Los Angeles. Since then HAAFII has grown into a multi-faceted community agency. Part of its mission is to ensure research is being done ethically and equitably in community. HAFFII supports a bidirectional learning model, where all knowledge is important and it holds all partners accountable for reporting back and creating wins for both academia and community. Its mission is to improve the health outcomes of the African American, Latino, Korean, and other minority communities in Los Angeles County by enhancing the quality of care and advancing social progress through education, training and collaborative partnering with community stakeholders, academia, researchers, and government. HAAFII is widely regarded in the community as an advocate voice, and source of education and training around disparities and research, for the local community. Its partners include Charles R. Drew University of Medicine & Science, the University of California, Los Angeles, the RAND Corporation, and over 150 community based organizations. As such, it is dedicated to addressing social, institutional and policy determinants of health equity.



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PROJECT SUSTAINABILITY

Extramural Revenue Generation

- Fed Qualified Health Center (FQHC) Look-Alike Designation
- Third Party Reimbursement
 - Corporation/ Employer Insurance/ Private Insurance
- Charity Care
- · External Funding Mechanisms
 - Federal/State
 - Foundations



PROJECT COMMUNITY SUPPORTERS

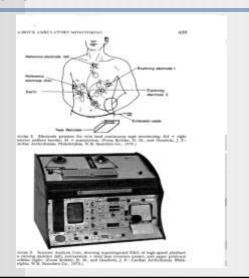
- The Black Community Health Task Force
- Salvation Army
- Canon Human Services
- Tree of Life MB Church
- Healthy African American Families
- Health Net Connect HNC
- The National University Office of the Chancellor



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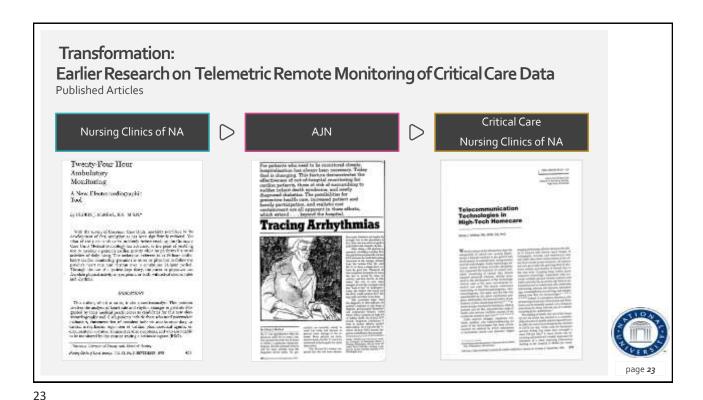
McNeal, G.J. (1978). Twenty-four hour ambulatory monitoring: A new electrocardiographic tool. *Nursing Clinics of North America*, 13(3), 128-132

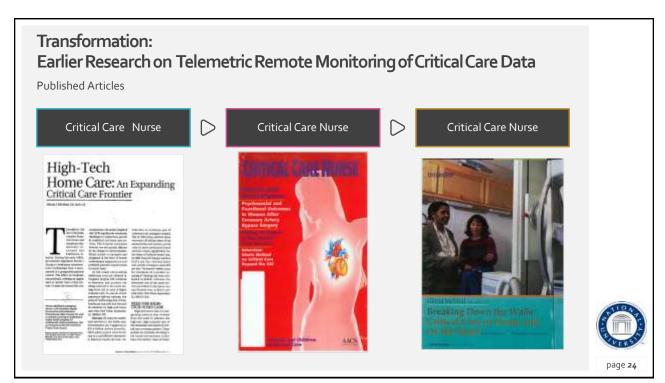


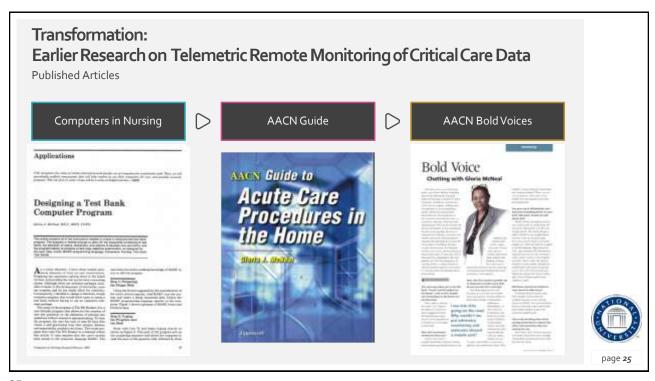
Taking Critical Care Monitoring from the ICU to the Community

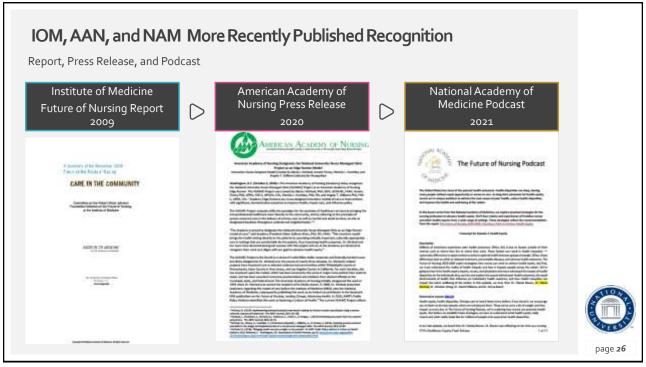
Improving Access to Care for Underserved Communities

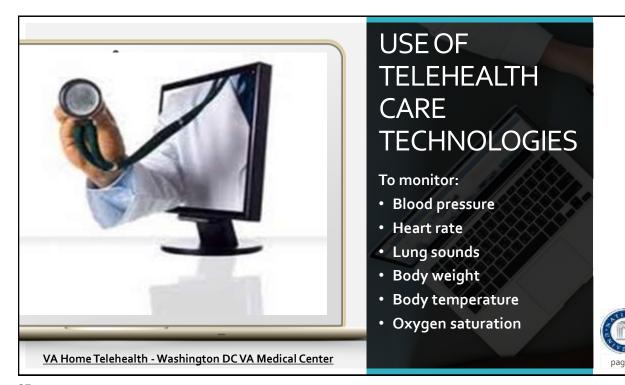






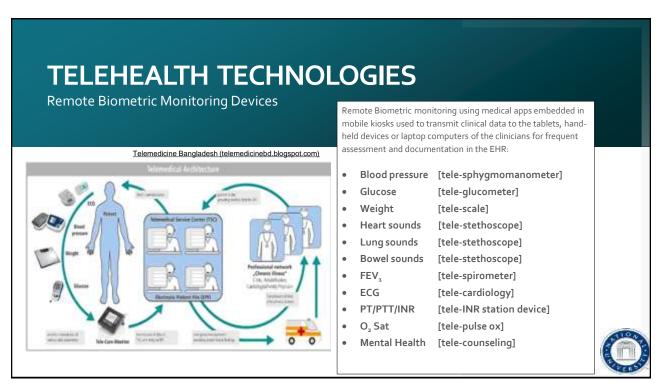






Communication Linkages • Telehealth Peripheral Devices • Cell Phone • Laptop • Tablet • Faxing capability • ECG Transmission







CONCEPTUAL FRAMEWORK

Person-Centered Care served as the theoretical construct for our model of care







MAJOR COMPETITORS

MINITE CLINIC



Minute Clinics are staffed by <u>nurse practitioners</u> and <u>physician assistants</u> Services offered by Minute Clinics include Vaccinations, such as influenza, tetanus-pertussis, pneumovax, and Hepatitis A & B, sports and camp physicals, Department of Transportation physicals, sexual transmitted disease testing and treatment, contraception services, smoking cessation, and TB testing. <u>Local Convenient & Quality Family Health Care Walk-in CVS MinuteClinic | CVS Health</u>



WALGREEN HEALTHCARE CLINIC

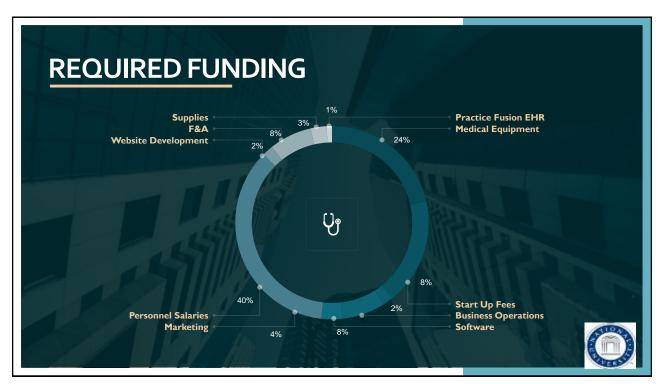
The Healthcare Clinic nurse practitioners and physician assistants are part of a network of more than 70,000 healthcare professionals across Walgreens pharmacy, Walgreens Infusion Services, Walgreens Specialty Pharmacy and other lines of business. Walgreens rebrands its in-store 'Take Care' (clinics as 'Healthcare Clinics' - Industry News (healthcarefacilitiestoday.com)

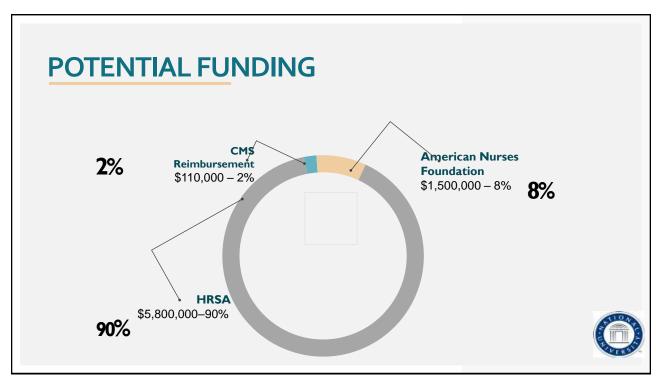


CONVENIENCE CLINICS

Convenient care clinics are often referred to as <u>walk-in clinics</u> and are typically located within a drug store such as CVS or Walgreens. These clinics were initially intended to serve the uninsured or underinsured, providing a more affordable option for basic medical services than a visit to the emergency room or even urgent care center. <u>Urgent Care VS Convenient Care | How They Are Different | UrgentWay</u>







HOW DATA DRIVES NEW CARE DELIVERY MODELS AND IMPROVEMENTS IN HEALTHCARE

BACKGROUND

 In underserved communities, the absence of clinics, pharmacies, physicians, and other healthcare services directly translates into poor healthcare outcomes

PURPOSE

 This project was implemented to shift the paradigm for the provision of primary care services by taking a mobile nurse-led interprofessional health care team directly to the community, to decrease the number of ER visits for the patients served

METHODS & DATA

A descriptive study design was used to examine the health records of 477 patients treated by the nurse-led team, to extract demographic data, determine cost effectiveness and calculate loss to follow rate of return



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SELECTED OUTCOME DATA

Table I: Patients by FPL

Income as Percent of Poverty Line	Number of Patients n (%)	
100% and below	293(61.4%)	
101-150%	13(2.7%)	
151-200%	6(1.3%)	
Over 200%	16(3.4%)	
Unknown	149(31.2%)	
Total	477(100%)	

Table 2: Patients by Race

Hispanic	Non-	Total n (%)
/Latino	Hispani	
	c/Latino	
0	19	19(4%)
0	0	0%
0	1	1(0.2%)
0	235	235(49.2%)
0	0	0%
109	27	136(28.5%)
2	4	6(1.3%)
0	0	80(16.8%)
111	286	477(100%)
	/Latino 0 0 0 0 0 0 109 2 0	/Latino Hispani c/Latino 0 19 0 0 0 0 11 0 235 0 235 0 0 109 27 2 44 0 0 0

Table 3: Follow Up Rate of Return

Intervals
.6%, 48.2%]
w up
0%, 32.7%]
w up
.4%, 98.4%]
4.0%,



Future of Healthcare Education

Mixed Reality





https://youtu.be/KGv2iRzQzQg



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Mercy Virtual Hospital



https://www.youtube.com/watch?v=jAQuEZUdB-A



Telecommunication Technologies



https://www.hfmmagazine.com/articles/2272-mercy-virtual-expands-its-network-of-telemedicine-partners

- Telemedicine
- Telenursing
- Teleinfusion
- Teleradiology
- Telespirometry
- Telehealth
- Robotics
- Remote monitoring
- Teleconferencing



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Telehealth Monitoring

Teleconferencing technology



https://www.google.com/url?sa=i&url=https %3A%2F%2Fwww.canstockphoto.com%2Fafr ican-american-doctor-video-conference-82670347.html&psig=AOvVaw1zrFSnDcEkg6-

jg5-88ppQ&ust=1636506008684000&source=im ages&cd=vfe&ved=0CAgQjRxqFwoTCJCqt56K ivQCFQAAAAAdAAAAABAE



Televisit



https://www.google.com/url?sa=i&url=https%3A%2F%2Fcapitaldiabetes.or g%2Ftelevisits%2F&psig=AOvVaw0W1rk613zrL502C_hpyWCu&ust=163650 6276421000&source=images&cd=vfe&ved=0CAgQjRxqFwoTCLi4l56LivQCFQ AAAAAAAAAAABAE



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Telehealth Monitoring

■ Tele-otoscope



https://www.google.com/url?sa=i&url=https%3A%2F %2Fwww.arkansasonline.com%2Fnews%2F2016%2F nov%2F25%2Frural-schools-to-go-telemedicine-route-%2F8psig=AOvVaw0_gBpie10w7hWaPjmv3I2J&ust=1 636506482803000&source=images&cd=vfe&ved=0C AgQjRxqFwoTCJCC7-6LivQCFQAAAAAdAAAAABAJ



Telesensor

Monitors body temperature, blood pressure, blood glucose levels and transmits results to mobile phone







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Telesthetoscope



https://www.google.com/url?sa=i&url=https%3A%2F%2Fwww.ek uore.com%2Fhow-integrate-ekuore-pro-electronic-stethoscope-intelemedicine-project%2F&psig=AOvVaw1yEPMamXcm9wt4_kGHedCe&ust=163 6506719216000&source=images&cd=vfe&ved=0CAgQjRxqFwoTC KDI2fCMivQCFQAAAAAAAAAAAAAAA



https://www.aarp.org/ppi/info-2017/gloria-mcneal.html



Robotics



https://www.google.com/url?sa=i&url=https%3A%2F%2Fwww.pinterest.com%2Fpin%2F540150549030685701%2F8psig=AOvVaw0HPVx2EQ42bb_BrqbX0yig&ust=163650881321000&source=images&cd=vfe&ved=0CAgQjRxqFwoTCJCbr8ONivQCFQAAAAAAAAAABAE



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Web-enabled Teleconferencing **Technology**

■ From the point-of-care to the desktop or hand-held device of the clinician



https://www.google.com/url?sa=i&url=https%3A%2 F%2Fwww.or-technology.com%2Fen%2Fproducts%2Fhuman%2Fd

icompacsmobileview.html&psig=AOvVaw3PAMzyA8DwoYf2FUb
fwhTC&ust=1636507270878000&source=images&cd
=vfe&ved=0CAgQjRxqFwoTCJidooCPivQCFQAAAAAd
AAAAABAD



- The majority of patients treated represented ethnically diverse groups, who are often lost to follow up due to barriers to access
- The study findings support primary care treatment at a nurse-led clinic as a strategy to reduce costs when compared to ER utilization rates
- This project was able to foster community involvement and place desperately needed health services directly at locations people in the community trust and frequently visit
- The use of telecommunication technologies improves access to care especially for the residents of underserved communities





Salvation Army Partnership - Inglewood California - National University

https://www.youtube.com/watch?v=86_15M_yi6Q

NUNMC GRAND OPENING

Salvation Army Inglewood California

ACKNOWLEDGEMENT STATEMENT

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