

University of New Mexico School of Medicine



ARTHUR KAUFMAN, MD
VICE-CHANCELLOR FOR COMMUNITY HEALTH

Vision 20/20



- **“Help New Mexico make more progress in health than any other state by 2020**
 - An academic health center that focuses on improving the state’s population’s health and health equity as a measure of the institution’s success

Strategies for Overcoming Barriers

- Strong faculty development program (campus, community)
- Broaden ownership of innovation, including hospital-based specialists
- Build strong community partnerships, include different sectors of community
- Link innovations in education with innovations in service
- Learn from others' successes, failures (worldwide)

Pipeline Development



- **Middle School**
 - Dream Makers Club
- **High School**
 - Medical Stars
- **Undergraduate**
 - Combined BA/MD Program

30 % of the student body come from backgrounds underrepresented in medicine

Pathways to Health Careers



**Dream Makers
Health Careers
Club**

*Middle School 7th
and 8th graders*

After-school club,
exposing students
to health careers
through interactive
hands-on activities.



**Health Careers
Academy (HCA)**

*High School Summer
Program*

Summer academic
enrichment and
health career
exposure for
New Mexico high
school freshmen,
sophomores, &
juniors.



**Undergraduate
Health Sciences
Enrichment
Program (UHSEP)**

*College Incoming
Freshmen Summer
Program*

Residential preliminary
undergraduate
experience, academic
enrichment and health
careers training for
New Mexico incoming
college freshmen.



**New Mexico
Clinical Education
Program
(Clin. Ed.)**

*Pre-Medicine
College Juniors*

Provides experience
in rural, clinical
settings for
pre-professional
students.



MCAT + / PCAT +
*College Undergrads
& Grads*

Medical school
preparation for
students getting
ready to apply to
medical school.
Includes MCAT prep,
pre-admissions
workshops and
introduction to
problem based
learning.



**Pathways to
Pharmacy**
College Grads

Students
selected by the
UNM College
of Pharmacy
Admissions
Committee
will improve
their academic
qualifications and
facilitate their
entry the College
of Pharmacy.



**Premedical
Enrichment
Program (PrEP)**
College Grads

Assist educationally
disadvantaged
students in
their long-term
professional
success toward the
achievement of the
doctoral degree from
the University of
New Mexico School
of Medicine.

M I D - S C H O O L → H I G H S C H O O L → C O L L E G E → H E A L T H P R O F E S S I O N S E D U C A T I O N

P A R T N E R S

- University of New Mexico
- UNM School of Medicine
 - Center for Native American Health
 - Center of Excellence
 - Diagnostic and Therapeutic Sciences
 - Division of Dental Services
 - Physician Assistant Program
 - Rural Health Interdisciplinary Program
 - School-Based Health Centers
- UNM College of Pharmacy
- UNM College of Nursing
- UNM School of Law
- UNM HSC Office for Community Health
- Albuquerque Public Schools
- Engaging Latino Communities for Education
- First Choice Community Healthcare
- New Mexico Mathematics, Engineering, Science Achievement
- Montañeros del Norte AHEC
- SoAHEC
- Luna Community College
- Santa Fe Indian School
- Institute for Ethics
- New Mexico Highlands University
- Project DIVERSITY (Con Alma Health Foundation)

Existing and Potential Training Locations for Family Medicine Residents in New Mexico



- ▲ = Residency Hubs (3-year programs)
- = 1 + 2 Locations (1 year in Albuquerque, 2nd & 3rd Year at site)
- = Potential Rural Rotations from 1 + 2 Locations

“Health Commons”

- Community stakeholders address intractable health problems
- One-stop-shopping (medicine, behavioral health, case management, oral health, community health worker links with community)
- Integration of medicine and public health
- Model interdisciplinary training site for health professionals
- Community engagement — e.g., pipeline development, economic development

Kaufman A, Derksen D, Alfero C, et al. The Health Commons and Care of New Mexico's Uninsured. *Ann Fam Med*, Vol. 4, Supplement 1, Sept/Oct 2006: 522-527

Public Health Certificate



- **Health Equity curriculum**
 - 1st 2 weeks of medical school
- **Early clinical exposure**
- **Community based immersion**
- **Public Health courses integrated throughout the 4 years**
 - 17-credit Public Health Certificate upon medical school graduation

UNM Public Health Certificate



- **Transcripted Courses**

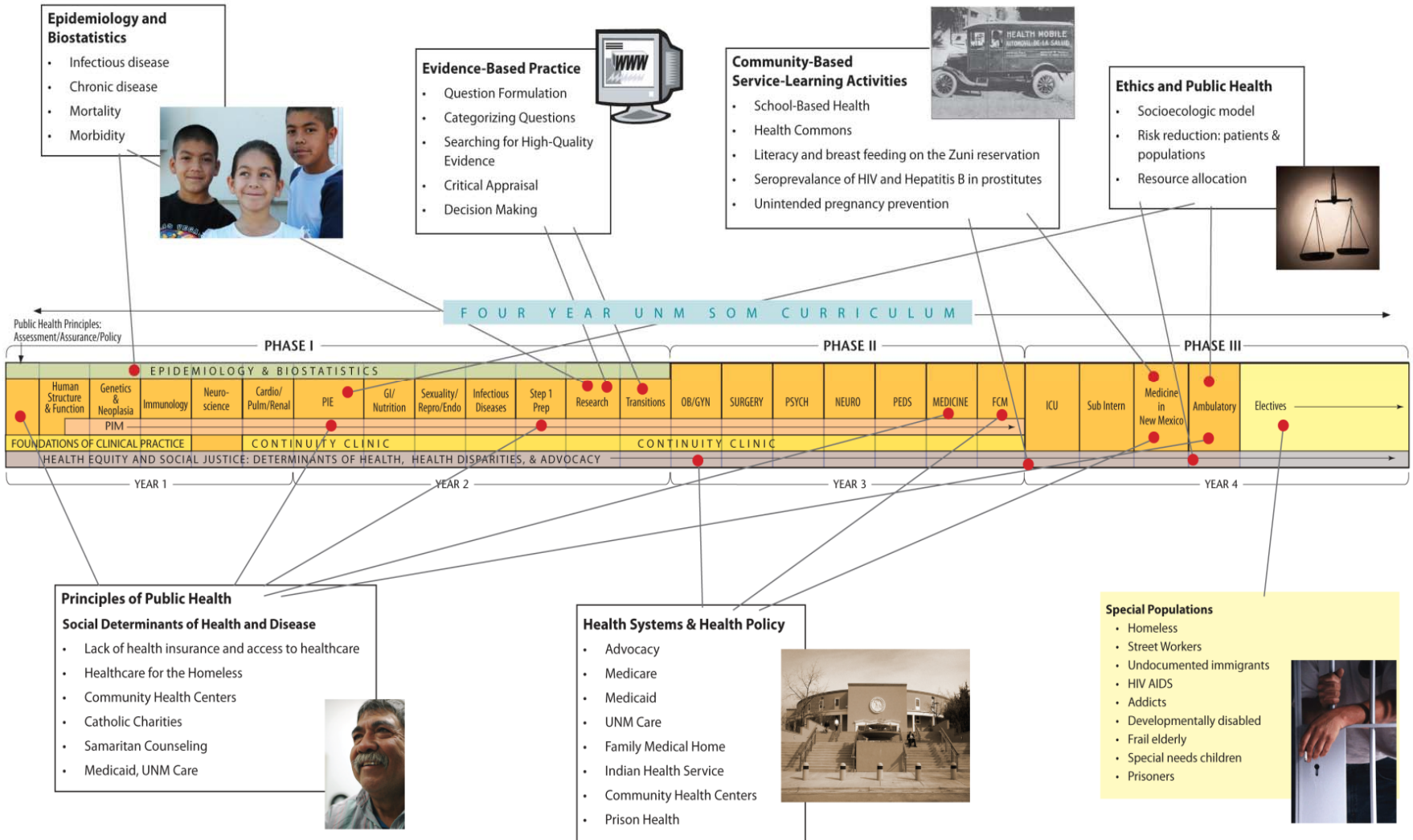
- 3 credits...Principles of Public Health
- 4 credits...Epidemiology & Biostatistics
- 2 credits...Evidence-based Practice

- **Fully Integrated Courses**

- Health Systems & Health Policy
- Community-Based Service-Learning Project
- Ethics and Public Health

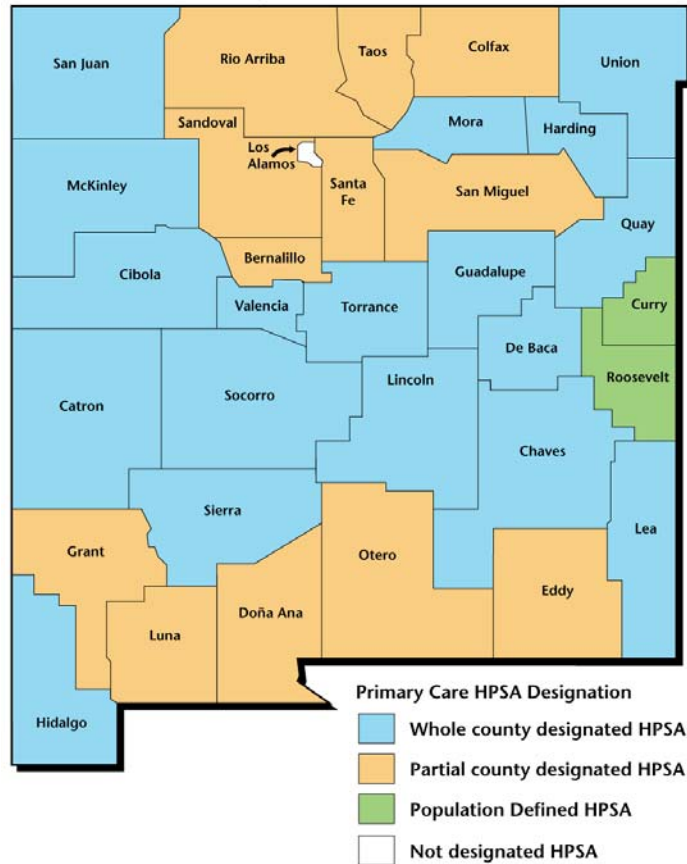
UNM SOM: Public Health Certificate

UNM Public Health Certificate: An Integral Part of the Medical School Curriculum



Major Gaps/Challenges

2010 DATA
New Mexico Health Professional Shortage Areas:
Primary Care Professionals



Source: US Dept. of Health and Human Services, HRSA, Bureau of Health Professions/National Center for Health Workforce Analysis (Does not include FQHC and Certified Rural Health Clinics)

- Fragmented system of medical, behavioral, social services
- Poor access to basic services
- Maldistribution of health professionals
- Research priorities often not aligned with community's priorities

HERO's



- **Modeled on agricultural extension services**
 - Stations staff members throughout the state to provide a link from communities to the HSC resources

Sample County Health Report Card



Hidalgo County

Lordsburg, Cotton City, Animas, Playas, Cloverdale, Virden

BACKGROUND DATA

Quick Facts	Hidalgo County	New Mexico
Land area (square miles)	3,446	121,356
Population (2006 est.)	5,087	1,954,599
Persons per square mile (2000)	1.7	15.0
Median household income (2004)	\$23,702	\$37,838
Persons below poverty, percent, 2004	21.2%	16.7%
Unemployment rate (November 2007)	2.2%	3.2%
High School Dropout Rate 2005-2006		
Animas Public Schools	1.0%	4.9%
Lordsburg Municipal Schools	8.2%	

Legislative Districts

House

- Dist. 38, Rep. Dianne Miller Hamilton
- Dist. 39, Rep. Rodolpho "Rudy" Martinez

Senate

- Dist. 35, Sen. John Arthur Smith

LEADING CAUSES OF DEATH

Rates per 100,000	Hidalgo County	New Mexico
Diseases of the heart	156.2	176.8
Cancer	150.9	159.2
Accidents (unintentional injuries)	105.5	61.3
Chronic lower respiratory diseases	26.0	45.5
Cerebrovascular disease	116.9	33.1
Diabetes mellitus	49.8	32.0

Healthcare Clinics and Resources

Hidalgo Medical Services

500 E DeMoss Street • Lordsburg NM 88045 • 505-542-8384
Provides primary care services.

Animas Valley Clinic (Hidalgo Medical Services)

PO Box 85 • Animas NM 88020 • 505-548-2299
Provides primary care services.

Lic. Health Professionals (Jan. 2008)

MD/DO Total per Licensing Board:	1
MDs:	1
DOs:	0
Nurse Practitioners:	1
Physician Assistants:	1
Occupational Therapists:	0
Physical Therapists:	0
Dentists:	2
Nursing (NM Board of Nursing Statistics)	
Total Nurses:	18
Registered Nurses:	12
Licensed Practical Nurses:	6
Certified Nurse Midwives (per NM DOH):	0

Licensed Midwives (per NM DOH): 0

Pharmacists (4/08): 1

Current Provider vacancies, Hidalgo County (Jan. 2008): Total 3
(Physician 2; CNM 1)

Comprehensive Health Planning Council Priority Needs of Hidalgo County (2007)

- Substance Abuse
- Teen pregnancy
- Suicide Prevention
- Family Resiliency
- Emergency Preparedness

Community Environmental Health Concerns

- Trains: Air pollution, Noise, Safety
- Ground Water Quality/hx of hazardous waste, nitrate, fluoride
- Waste Disposal; Illegal dumping
- Hazardous Material Disposal: concerns about increase cancer
- Border Concerns: Drugs, alien traffic

HSC ACTIVITIES IN HIDALGO COUNTY (2007)

Education

- 1 UNM SOM student &/or resident grad practicing in county (UNM SOM Location Report '07)
- 2 Student/resident months supported by Area Health Education Center
- 13 Emergency Medical Services grads from the county
- 2 Months med student Community Immersion Experience w/ community preceptor

Services Provided to County

- 0.3 Specialty Extension Services days provided in 2007
- 79 calls to the New Mexico Poison Center in FY07
- 12 Pediatric Outreach Clinic hours provided (FY07)
- Department of Psychiatry / Center for Rural & Community Behavioral Health:
 - 100 Child & Adolescent Telepsychiatry consults in 2007
- 6 County residents served at UNM Cancer Research & Treatment Center (FY07)
- 174 total Hidalgo County patient visits at UNM Hospitals and Clinics (FY07):
 - 31 Charity Care
 - 38 Uninsured
 - 136 Compensated Care
- \$25,226 in uncompensated costs for care to Hidalgo County residents (FY07)

UNM SOM Graduates



Who was licensed to practice medicine in New Mexico in 2011?

- There were 1789 UNM trained MDs licensed to practice in New Mexico in 2011
- Approximately 40% of all physicians licensed in New Mexico trained at UNM (1789/4549,
- Approximately one of every four physicians trained at UNM is licensed to practice in New Mexico (1789/6929)

UNM SOM Graduates



- MDs who trained at UNM for both phases of their medical education (medical school and medical residency) are
 - twice as likely to practice in New Mexico as MDs who trained at UNM for only one phase of their medical education
 - ✦ (MD Only 381/1601, Medical Residency Only 914/4370, MD and Medical Residency 494/958)
- UNM trained MDs are licensed to practice in 30 of New Mexico's 33 counties

UNM SOM Graduates



2011 Specialty Information

- Roughly half of all UNM trained MDs in New Mexico are licensed to practice in the primary care specialties of family medicine, internal medicine, obstetrics & gynecology, or pediatrics (877/1789 total UNM trained MD's in NM)
- A bout 20% of UNM trained MDs in New Mexico are licensed to practice in one of four specialties: anesthesiology, general surgery, emergency medicine, or psychiatry (405/1789)

Conclusions

- Invest in new partnerships beyond education
- Invest in new partnerships beyond the health sector
- Create pub health/medicine service models as training sites
- Link collaborative innovations with local economic and community development