

TOBACCO SETTLEMENT REVENUE OVERSIGHT COMMITTEE

Co-Chaired by:

Senator Cisco McSorley

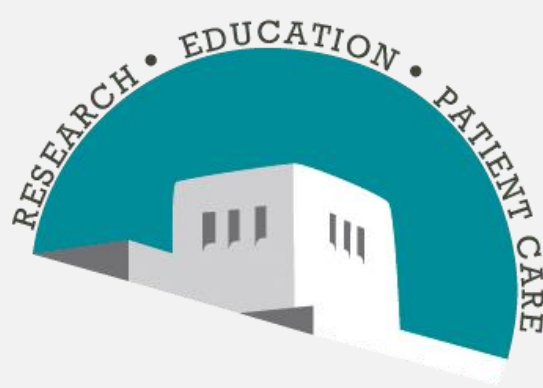
Representative John L. Zimmerman



Richard S. Larson, MD, PhD

Executive Vice Chancellor

Vice Chancellor for Research



UNM Health Sciences Center
plays a **critical role** in delivering
healthcare services, training of
health professionals, and contributing
to New Mexico's **economy.**

Employs over **10,000** individuals

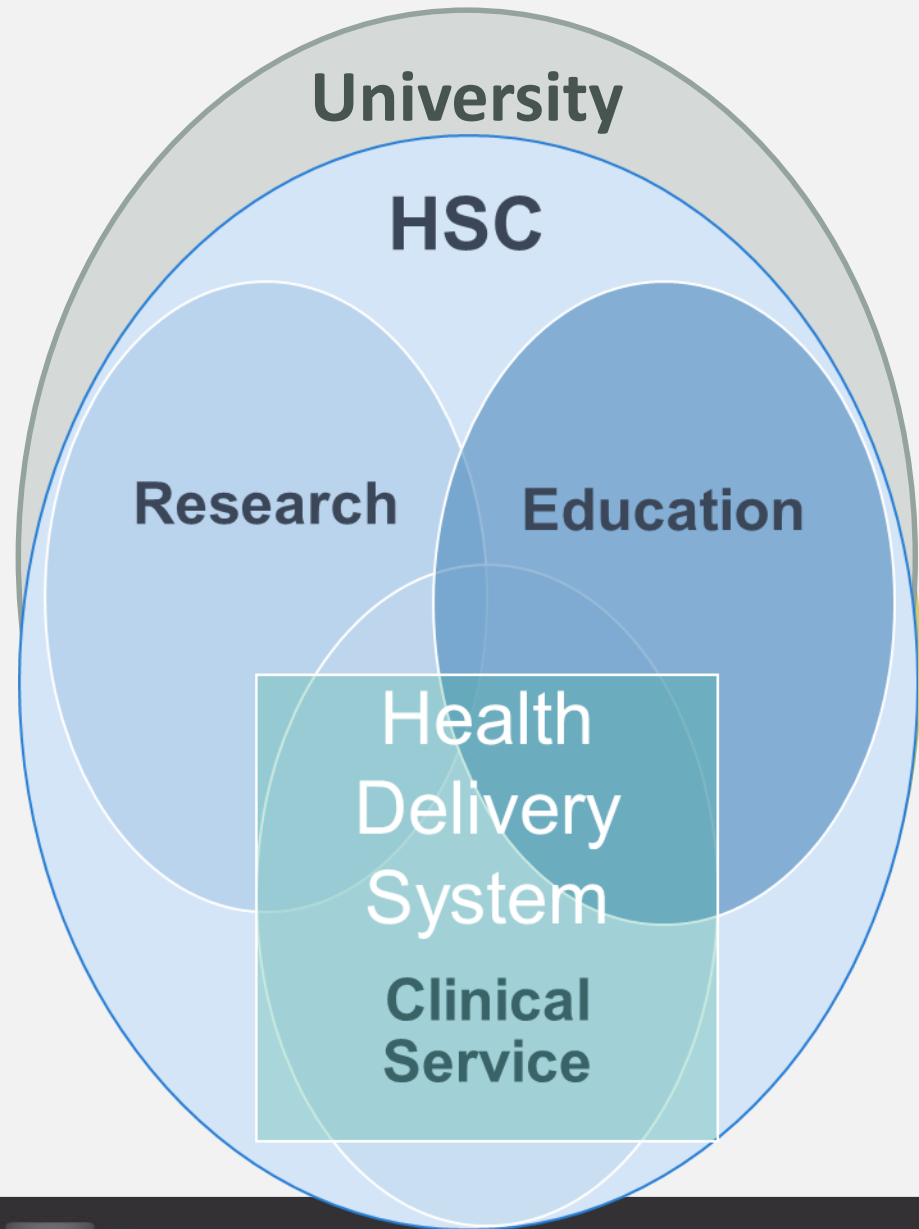
UNM HSC: An Academic Health Center

Neither purely **academic institution**
or **health care providers**

Compete in **health** and **marketplace**

Engage in **biomedical research**

Extensive **educational activities**



UNM HSC: Critical Needs Programs for New Mexico



Patient Care

Delivery of **comprehensive** and **unique** patient care

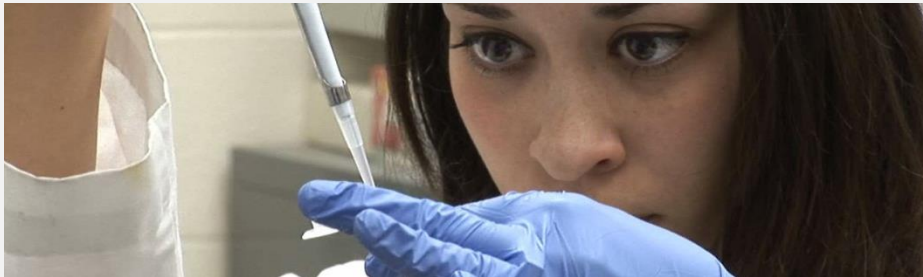
Education

Growing the **next generation** of Health Care Professionals Workforce

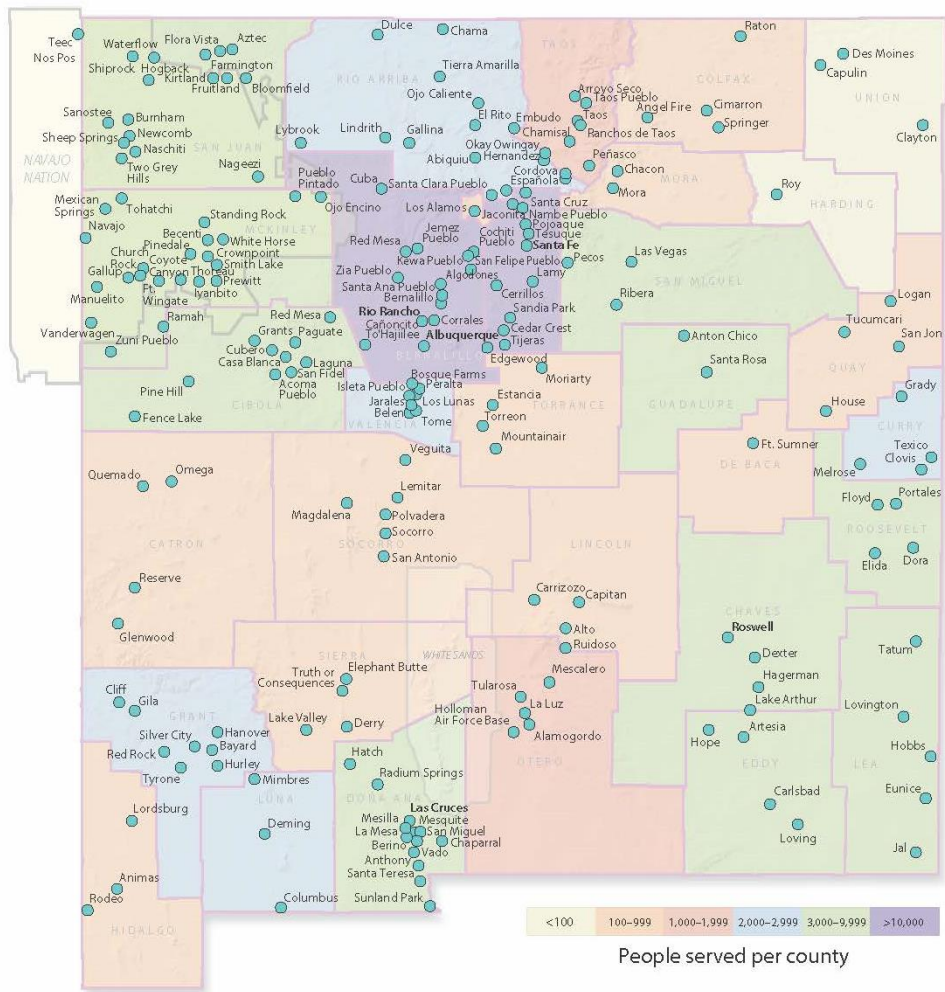


Research

Creating new **knowledge** to increase the **quality of life** for New Mexicans



Activities in New Mexico Counties

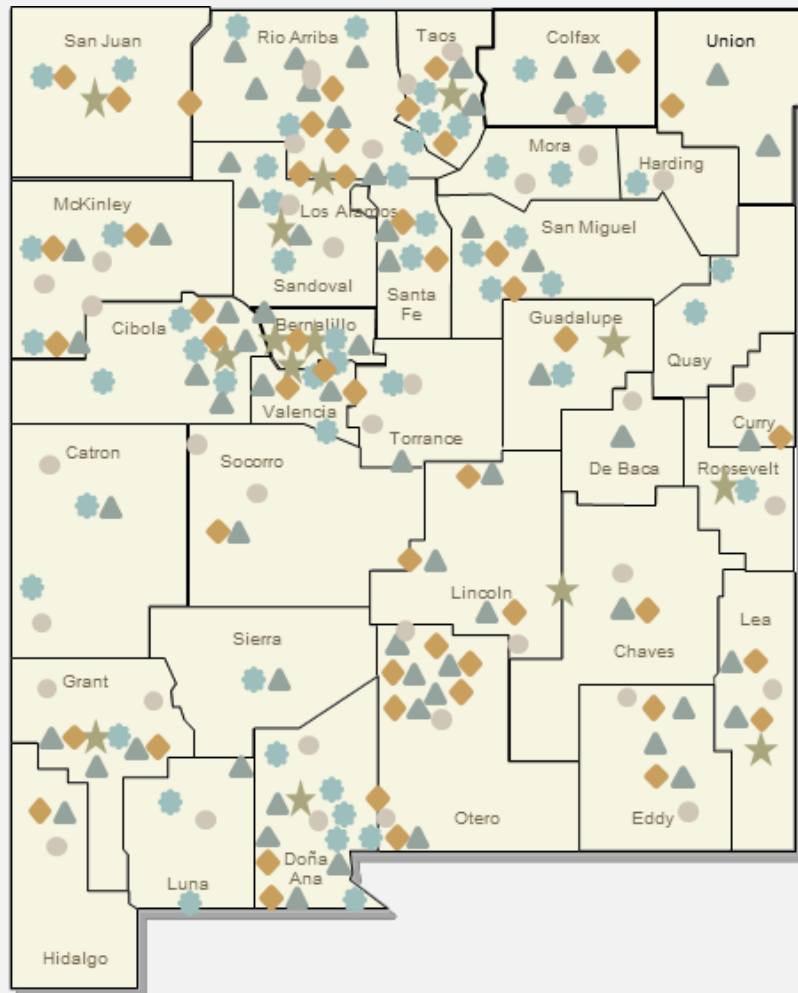


579 Activities in 246 Communities

Activities include:

- Education
- Patient care
- Community research
- Telehealth sites

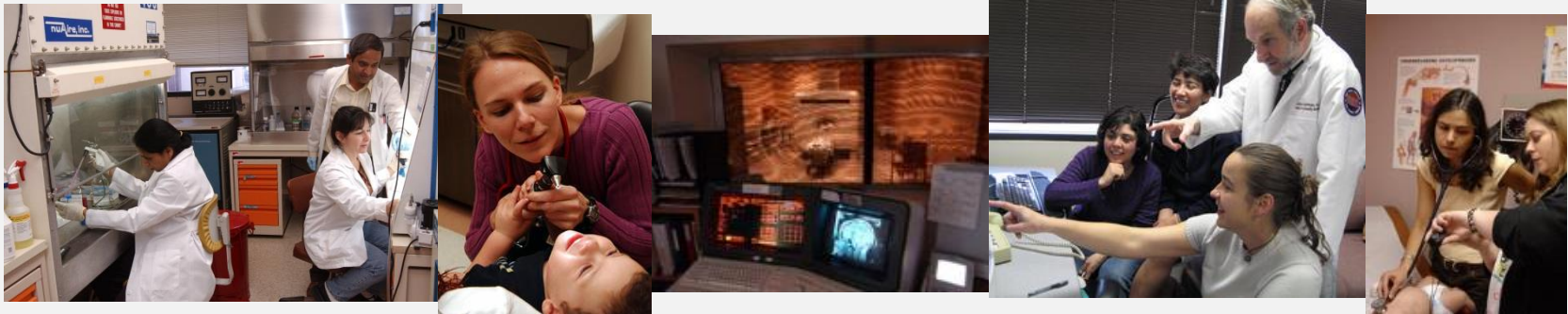
Research in New Mexico Counties



- Provides statewide support services for research
 - ★ Health Extension Rural Offices (HEROs)
 - ◆ Investigator-led community-based programs
- Provides access to other research programs
 - ▲ Project ECHO
 - ✿ Practice-based research network
- Establishing recruitment network
 - CHS/CHW Network

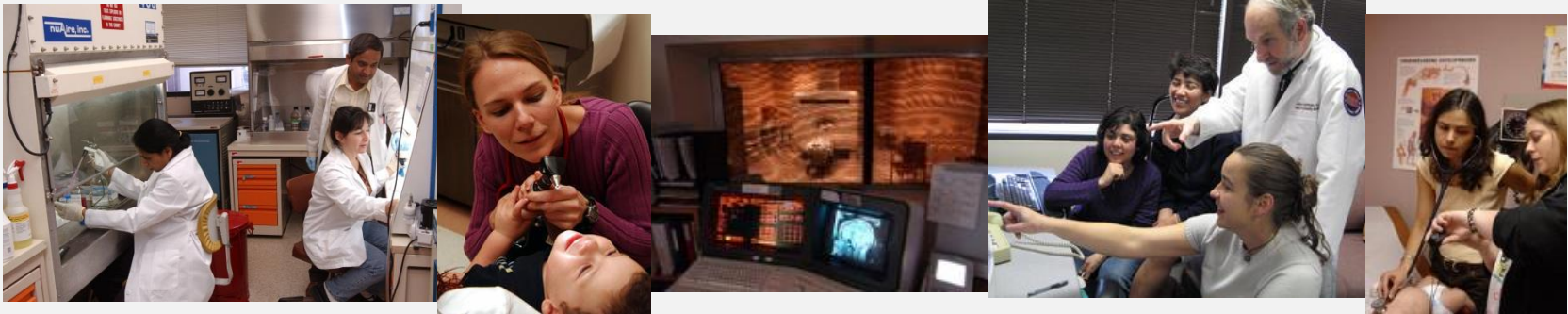
Tobacco Settlement Statute

- Supports **clinical care, education, and research** into tobacco related illnesses
- Support of **biomedical research** with tobacco settlement funds
- Funded **other needed** health-related programs



Cigarette Tax vs. Tobacco Settlement

- Tobacco Settlement supports **tobacco-related research and clinical care** at the entire UNM HSC
- Cigarette Tax (0.83%) supports **clinical care, education, and research** at the UNM Cancer Center



Tobacco Related Illnesses

Cancer

- Lung Cancer
- Esophagus Cancer
- Laryngeal Cancer
- Kidney Cancer
- Cervical Cancer
- Colorectal Cancer
- Leukemia/Lymphoma

Brain & Behavioral Illnesses

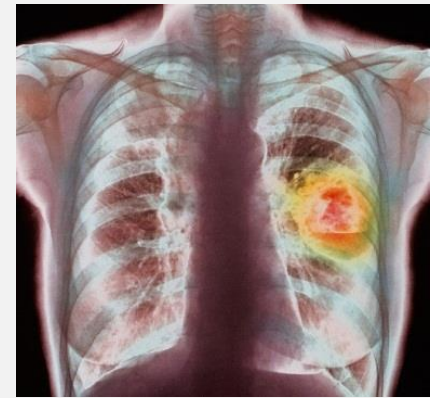
- Addiction
- Fertility in Women
- Impotence in Men
- SIDS
- Toxic Exposures

Infectious Disease and Immunity

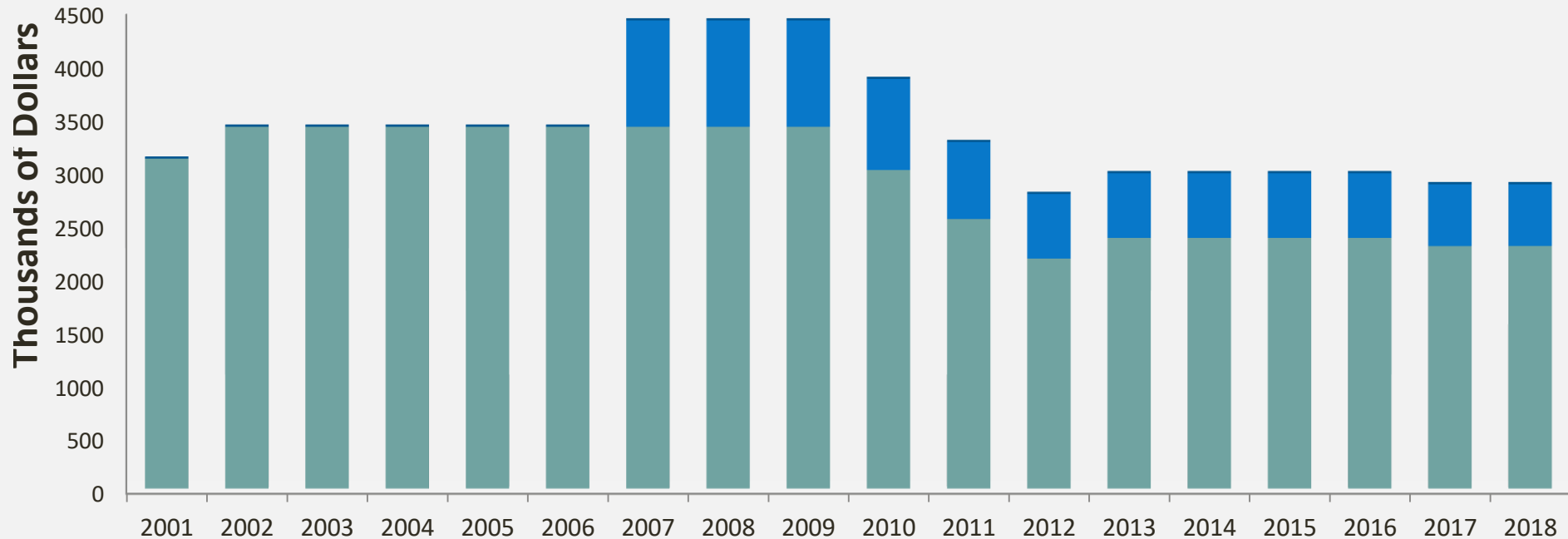
- Osteoporosis
- Delayed wound bleeding
- Palmoplantar pustulosis
- Psoriasis
- Increased incidence of back injury and broken bones

Diabetes and Vascular Diseases

- Coronary Heart Disease
- High Cholesterol
- Stroke
- Diabetes
- Emphysema
- Asthma
- Atherosclerosis



Changes Over the Last Decade



■ Core Programs started in 2001

■ Instruction & General funding in 2007

Programs Supported by Tobacco Settlement Funds

Core Projects

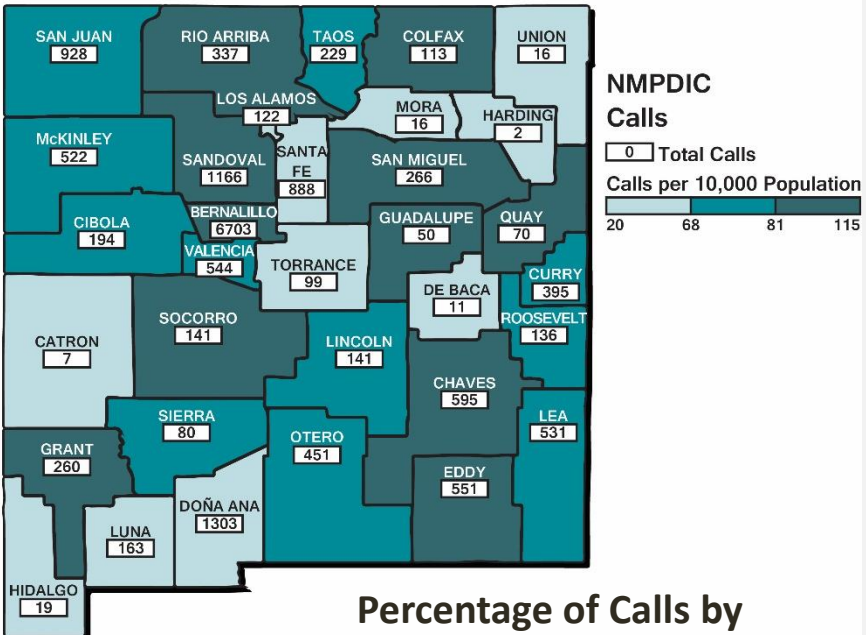
- NM Poison & Drug Information Center (FY19 Request: \$590,200)
- Pediatric Oncology Program (FY19 Request: \$261,400)
- *UNM HSC Biomedical Research (Genomics, Biocomputing & Environmental Health Research)* (FY19 Request: \$979,800)

Instruction & General (I&G) Funds

- *Specialty Education Trauma* (FY19 Request: \$261,400)
- *Specialty Education Pediatrics* (FY19 Request: \$261,400)
- *Instruction and General Line Item (added in 2007)* (FY19 Request: \$607,900)

NM Poison & Drug Information Center

NMPDIC Calls by County, FY17



Benefit

- The *only poison center* in New Mexico
- *Improves New Mexicans' health* by reducing morbidity and mortality associated with poisoning and by encouraging proper use of medications
- *Reduces healthcare costs* by helping citizens identify when to safely be treated at home and by consulting with healthcare teams for hospitalized patients
- Reducing hospitalizations saved ~\$36M
- Receives more than 25,000 calls per year
- Provides professional education statewide

Percentage of Calls by Relationship to Patient



Pediatric Oncology Program

Benefit

- The center of excellence for diagnosis & care of children with cancer
- The only provider of tertiary care for children with cancer in New Mexico
- Consults on young adults with pediatric cancers
- Over 450 active patients with 4,900 visits

Use of Funds

- Provides support to patients and their families via counseling
- Faculty positions are supported as well



History of I&G Funding from Tobacco Settlement Funds

- Began in 2007
- Legislature funded HSC I&G General Fund requests from TSF
- Supports trauma care, primary care, and faculty retention



With faculty compensation rates below the national average, the School of Medicine (SOM) is having difficulty retaining faculty physicians due to salary compaction. The SOM must be able to hire and retain quality faculty physicians as they are the key to educating our medical students, while simultaneously providing care to New Mexicans.

Funds Committed to I&G Supplement

Benefit

- Support additional faculty positions in pediatrics and trauma medicine
- Ensure that faculty members have sufficient time to continue teaching despite and ever-increasing clinical patient load



Programs

- Specialty Education in Pediatrics
- Specialty Education in Trauma HSC
- I&G Support for Education and Retention

UNM HSC Biomedical Research Genomics & Environmental Health

Benefit

- Pilot funds
- “Core” support
- Accelerating the translation of basic research into clinical practice



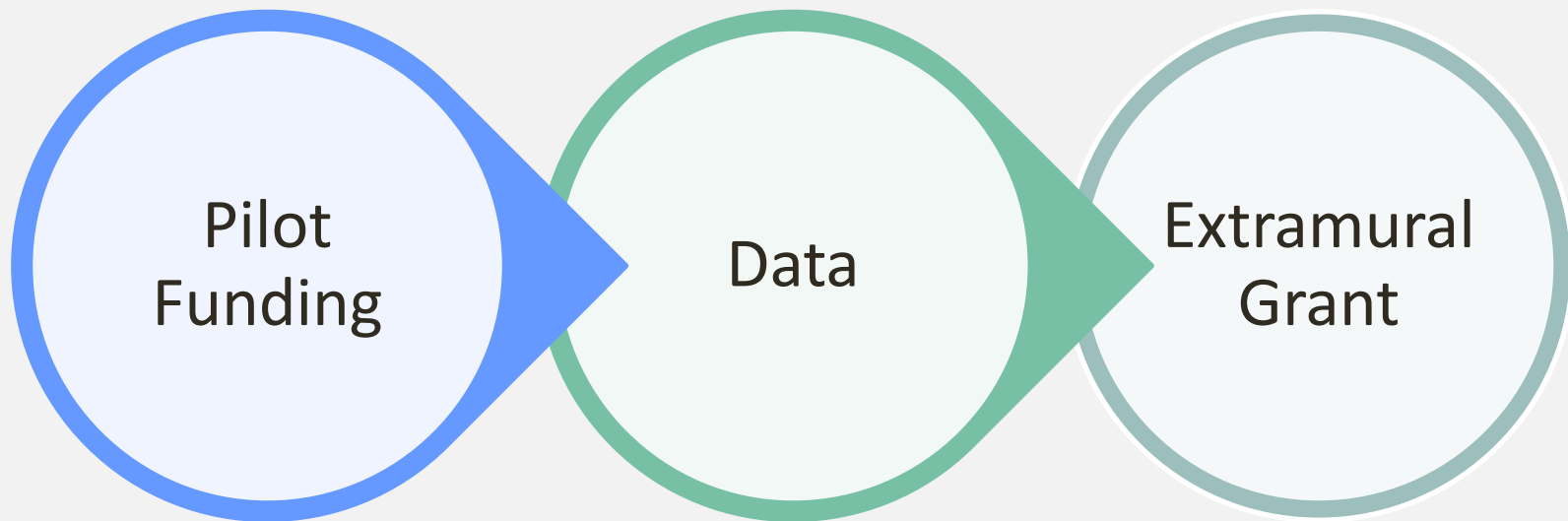
FY18 Amount: \$937,400

FY19 Request: \$979,800

(Now known as UNM Comprehensive Program for Clinical and Basic Research, and Prevention of Tobacco-Related Illnesses in New Mexico)

Pilot Funding

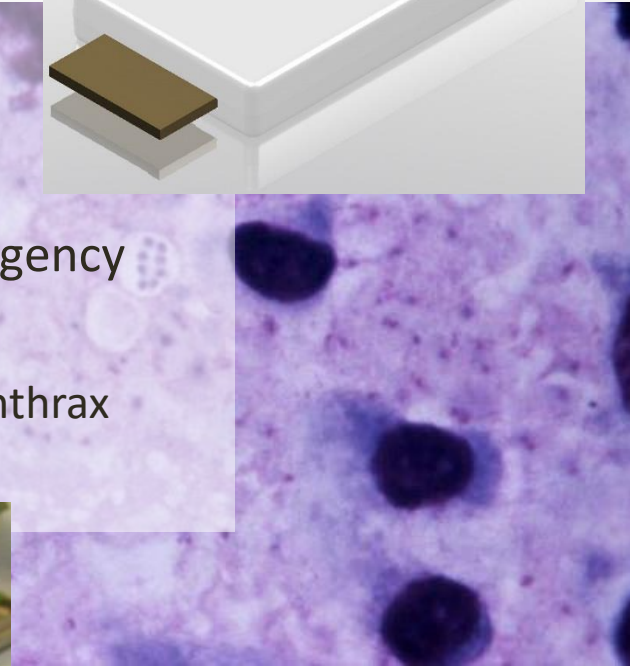
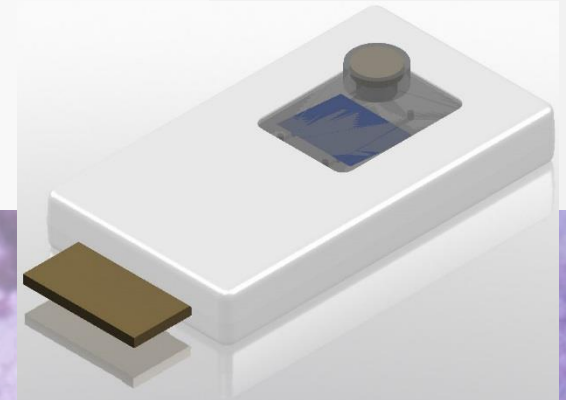
- **Pilot funding is the primary mechanism for obtaining federal support**



- **Pilot funding returns \$8 – \$20 per \$1 invested.**

Example of Pilot Funding

- Idea
 - Can we develop a handheld device to rapidly diagnose disease?
- Required Investment
 - \$50K Pilot funds (2003)
 - Core facilities supported by Tobacco Settlement
- Result
 - Initial data obtained with Sandia National Laboratories
 - Grant application (\$1.3M for 8yr; supports 10 jobs/yr)
- Chief Scientist Award from the Defense Intelligence Agency
- Public-Private Partnership
 - Adapted for hepatitis B and C, HIV, sin nombre virus, anthrax
 - Potential to save tens of thousands of lives

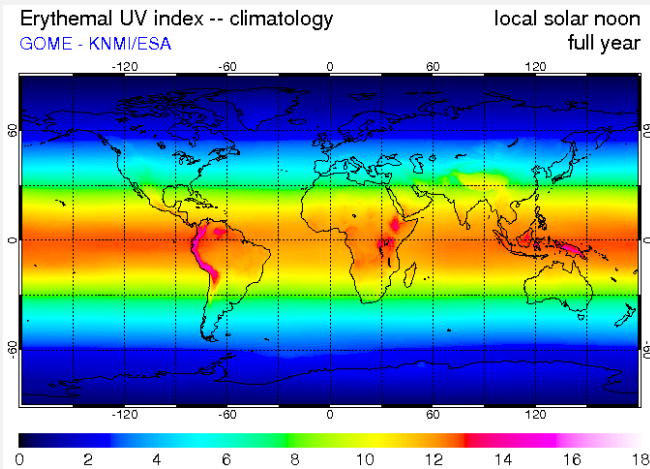


Ultraviolet Light and Immunosuppression in Melanoma

Vitamin D's role regulating the immune system may be a key to understanding melanoma.

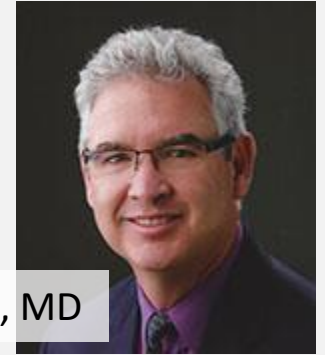
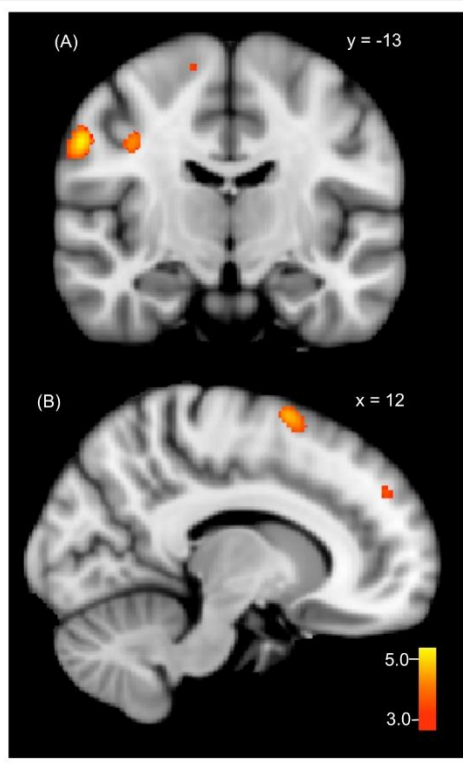


Marianne Berwick, PhD



Dr. Berwick and her collaborators will examine UV exposure, vitamin D status, and immune response markers in melanoma patients to understand how the immune system might be harnessed to fight the disease.

Neurocognition in PTSD



Juan Bustillo, MD

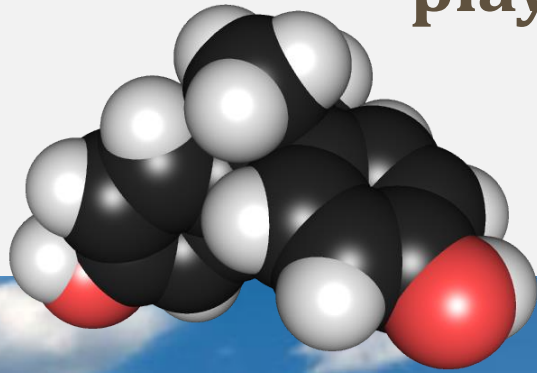
A greater understanding of PTSD is urgently needed.

Dr. Bustillo and his team will use brain imaging to understand how differences in regulating emotions and brain function are related to posttraumatic stress disorder and substance use problems.

Paws and Stripes image by US Air Force, via Wikimedia Commons

BPA and Breast Cancer Risk

An estrogen receptor, GPER, may play a role in breast cancer risk following BPA exposure.

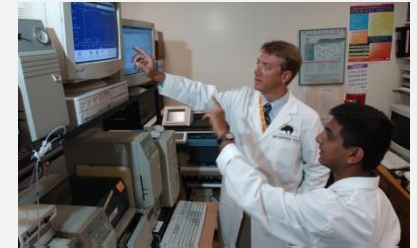


Helen Hathaway, PhD

In animals, exposure to bisphenol A (BPA) around the time of birth increases breast cancer risk. To find out how, Dr. Hathaway and her team are investigating the cellular action of GPER, an estrogen receptor, in breast cancers driven by chemicals like BPA.

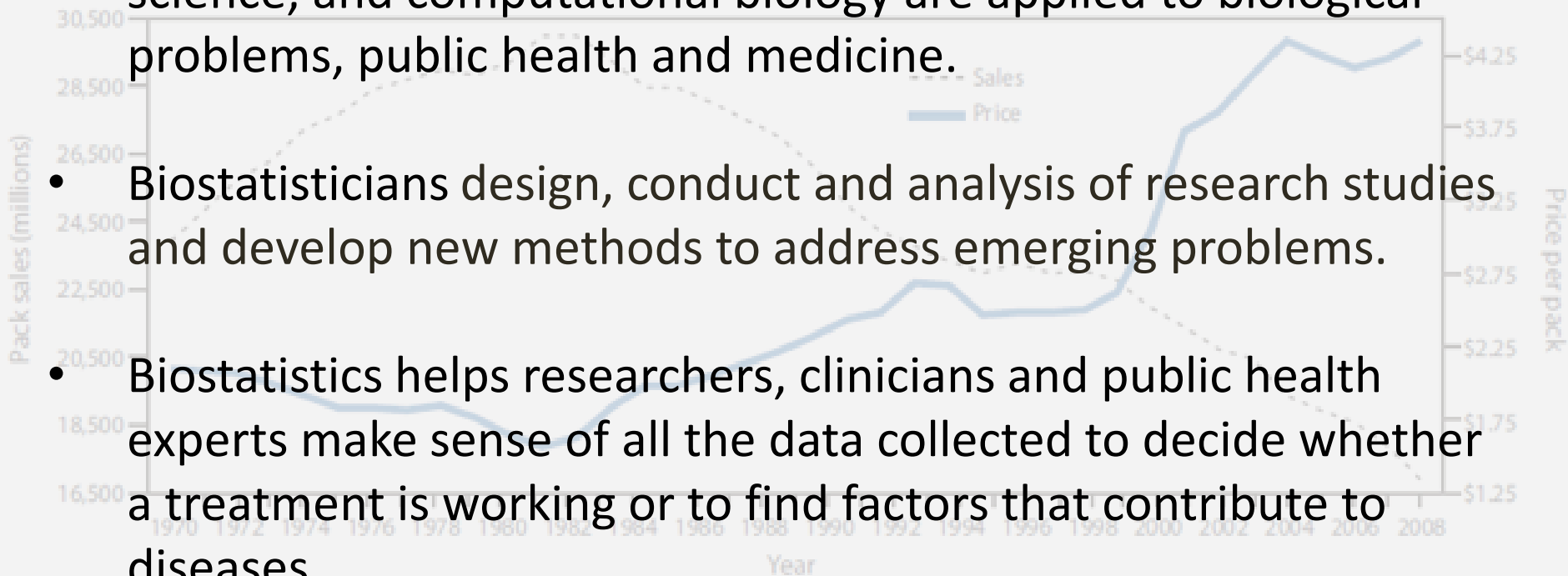
Core Facilities

- Shared facilities that provide service to entire HSC community (genomics and biostatistics)
- Provide access to equipment that is otherwise unavailable
 - **Research that would otherwise be impossible**



Core Facilities: Biostatistics

- Biostatistics is an exciting field where mathematics, computer science, and computational biology are applied to biological problems, public health and medicine.



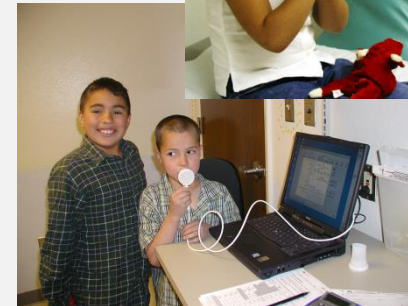
- Biostatisticians design, conduct and analysis of research studies and develop new methods to address emerging problems.
- Biostatistics helps researchers, clinicians and public health experts make sense of all the data collected to decide whether a treatment is working or to find factors that contribute to diseases.

Clinical and Intervention Trials

- Brings latest treatments and technologies to New Mexico
- **If trial not available, treatment not available in New Mexico**
- Each trial provides new treatment at no cost to patient
- Since 2001 Tobacco settlement funding has provided infrastructure support to 287 trials and 127 investigators

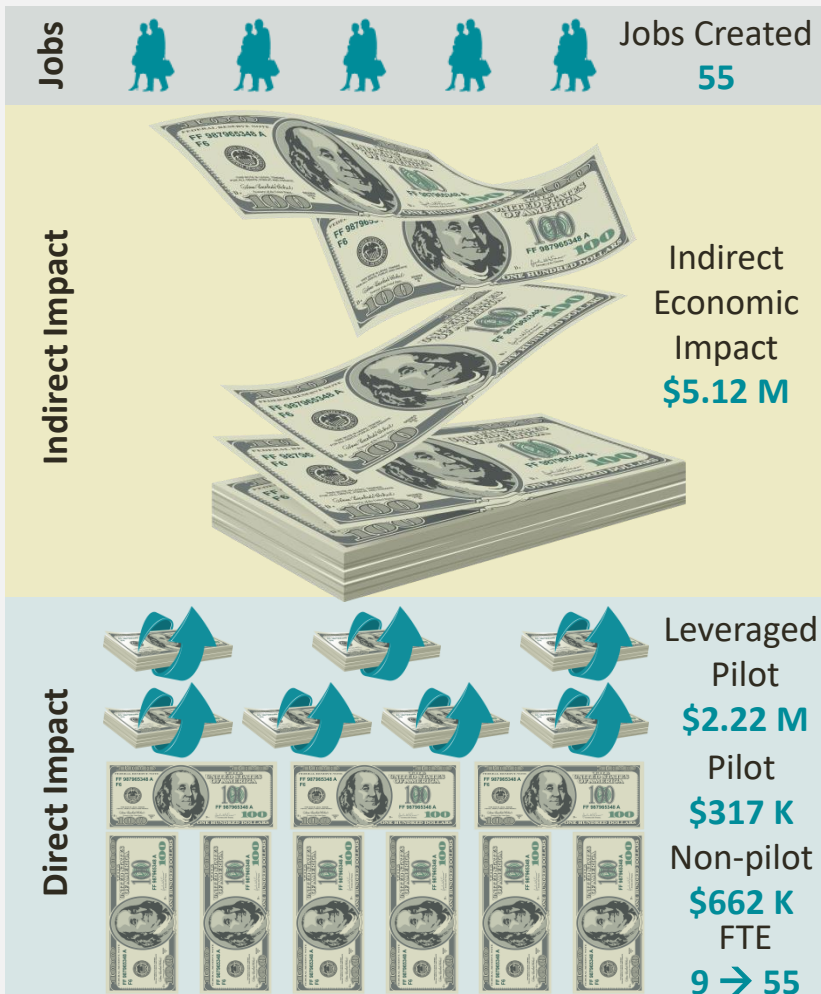
Examples in Clinical Trials Center

- 50 studies involving diabetes
- 20 pediatric and adult asthma studies
- 12 studies involving cystic fibrosis
- 10 studies involving MS
- 11 studies involving pediatric and adult kidney disease
- 9 studies involving pulmonary hypertension
- And studies involving heart disease, eye disease due to diabetes, Autoimmune diseases, orthopedic surgeries, and children with cerebral palsy.

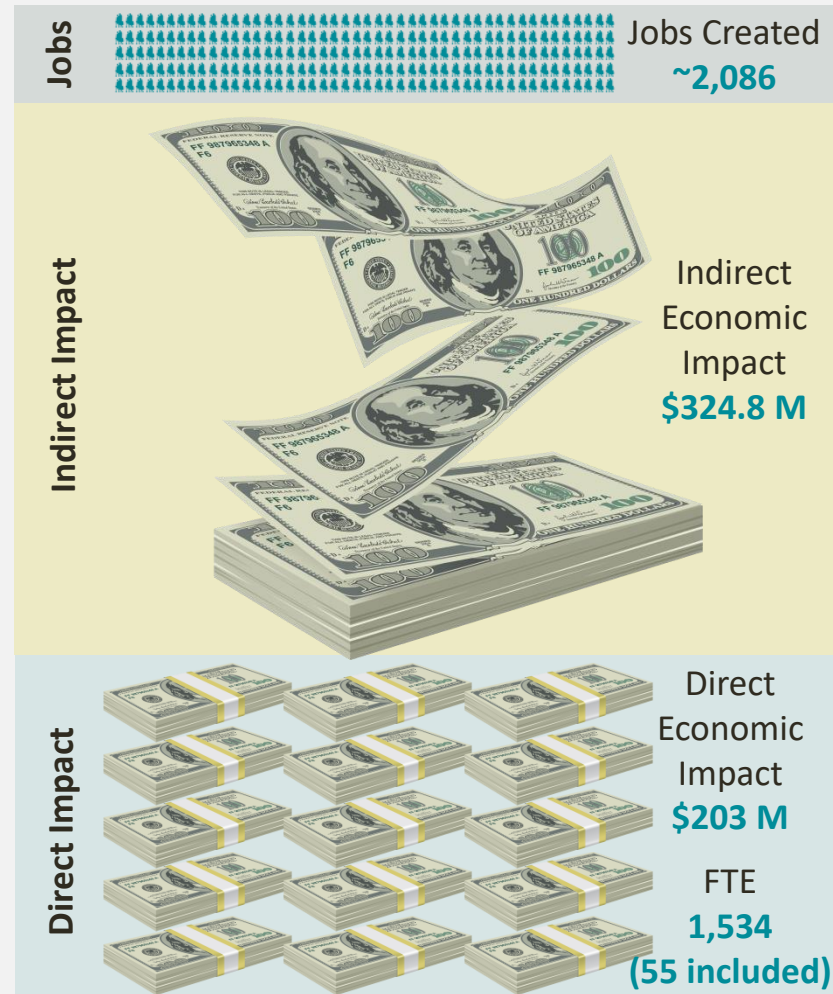


Estimated Economic Impact

Tobacco Settlement Funding



Total Research Funding



Commercialization

- Since 2004, 42 new private companies were either spun off from the university or used university technology to start up.

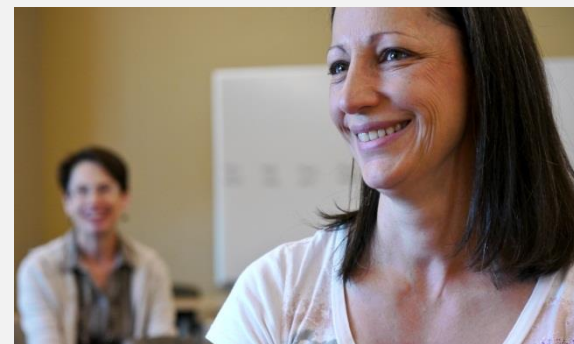
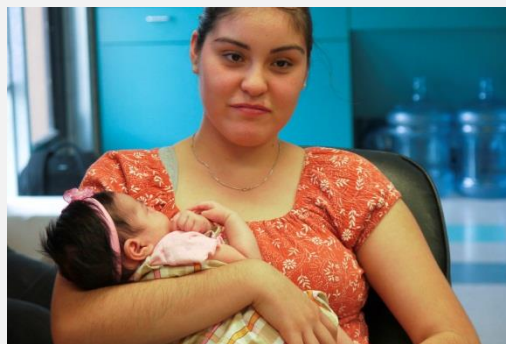


Threats to the Tobacco Settlement Fund

- Legal challenges by manufacturers
 - NM found “not diligent” by arbitration panel for 2003, reducing settlement by \$39 million
- Fund sustainability
- In the face of these, the HSC highly values efforts by our legislators to build and maintain permanent fund reserves

What Loss of Tobacco Settlement Means to New Mexico

- Risk of pending litigation
- Loss of patient care services
- Loss of technology to provide services and conduct research
- Loss of jobs (leveraged)
- Loss of economic activity
- Progressive shift to general fund



FY19

Tobacco Settlement Request

Tobacco Settlement Funds	FY18 Amount	FY19 Request
HSC Instruction & General	581,500	607,900
Research in Genomics and Environmental Health	937,400	979,800
Pediatric Oncology	250,000	261,400
New Mexico Poison & Drug Information Center	590,200	590,200
Specialty Education in Trauma	250,000	261,400
Specialty Education in Pediatrics	250,000	261,400
Total	2,859,100	2,962,100

Questions?