

Welcome to Wayne

Robert R. Frank, MD
Executive Vice Dean

April 30, 2009

History

- Began in 1868 as the Detroit College of Medicine
- Of 130 medical schools in the US
 - 3rd highest medical student enrollment
 - 4th largest single-campus medical school
- Detroit's only Medical School
- Missions of education, research and clinical care
 - Clinical care is delivered by separately incorporated 500+ member Wayne State University Physician Group

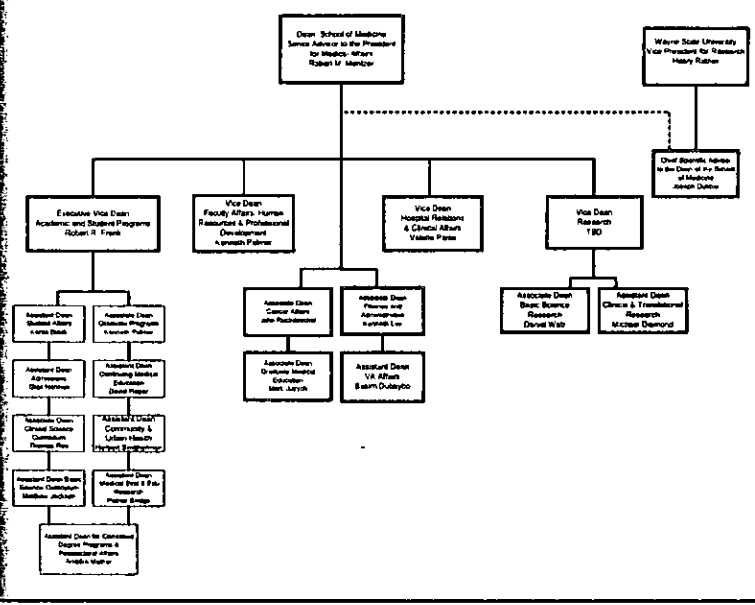
Current Status

- Nearly 2,300 Students and Trainees
 - Degree Programs
 - ~1,160 MD students (290/class)
 - ~350 graduate science students enrolled in MS and PhD programs
 - Graduate Medical Education
 - Jointly Sponsored Programs (DMC/WSU)
 - Accredited Programs: 670 residents
 - Unaccredited Programs: 23 residents
 - WSU Sole Sponsored Programs
 - 5 Accredited Programs: 62 residents
 - Transitional Year will begin 7/1/09 with 12 residents

Current Status (cont'd)

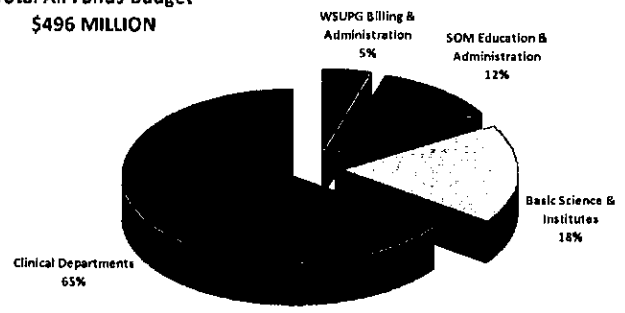
- 2,250 faculty members
 - ~750 full-time faculty
 - ~1,500 volunteer clinical faculty teach WSU medical students at community hospitals

Office of the Dean



Fiscal Year Budget 2009

Total All Funds Budget
\$496 MILLION



Education

Education

- The mandate to American Medical Colleges to respond to an impending shortage of physicians
 - Projected national shortage of ~8 percent by year 2020
 - Projected Michigan shortage of ~12 percent by year 2020*
- How to balance this mandate with maintaining excellence in the undergraduate medical educational experience
 - Increase the size of our entering medical school class from 270 to 290 to address the impending physician shortage

* *Michigan Blue Ribbon Physician Workforce Committee (2007)*

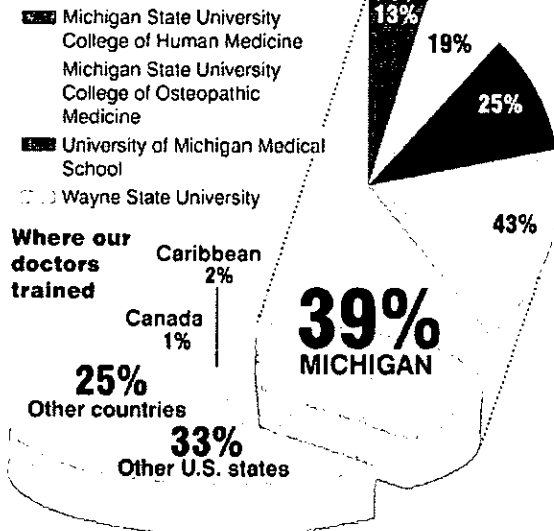
Providing Medical Education for Michigan Students

- AAMC Data indicates 1140 matriculates in the Classes of 2005-2008
- 86% of the School of Medicine MD students are from Michigan, making the School the leading provider of medical education for Michigan residents
- Sixty percent (60%) of SOM graduates remain in Michigan to practice medicine

Producing Physicians for the State of Michigan

- WSUSOM ranks first in the nation among its 125 medical schools for the number of graduates who plan to stay in state to practice
- More than 40 percent of all practicing physicians in Michigan received all or part of their medical training at the School of Medicine, including WSU/DMC residency programs

Educational background of fully licensed, actively practicing physicians in Michigan in 2007



SOURCE: Michigan Department of Community Health Survey of Physicians 2007

DAN JACALONE / THE SAGINAW NEWS

Southeast Michigan Center for Medical Education

- William Beaumont Hospital
- Bon Secours Cottage Health Services
- Crittenton Hospital Medical Center
- Detroit Medical Center
- Henry Ford Health System
- Karmanos Cancer Center
- North Oakland Medical Centers
- Oakwood Health System
- Providence Hospital & Medical Center
- St. John Hospital & Medical Center
- St. Joseph Mercy Ann Arbor
- St. Joseph Mercy Oakland

Graduate & Postdoctoral Training Programs and Interdisciplinary Biomedical Sciences (IBS) Curriculum

Office of Graduate & Post-Doctoral Scholars

PhD in:

- Anatomy and Cell Biology
- Biochemistry and Molecular Biology
- Cancer Biology
- Immunology and Microbiology
- Medical Physics
- Molecular and Cellular Toxicology
- Molecular Medicine and Genetics
- Pathology
- Pharmacology
- Physiology
- Translational Neuroscience

MS in:

- Master of Public Health
- Genetic Counseling
- Radiologic Physics
- Psychiatry
- Biomedical Sciences
- Medical Research

MD/PhD (combined):

- 4 students/yr (32 total)
- 7-8 year program
- Full tuition scholarship

MD/PhD Program

Mission

- Attract the best and brightest:
 - GPA \approx 3.78; MCAT \approx 11.3 avg.
- Provide outstanding physician-scientist training.
- Obtained NIH F30 & other fellowship.
- Goal: NIH MSTP award to SOM.
- Seed local and national residency and fellowship programs with our graduates.
- Attract fully trained graduates back to our faculty.

Graduate: PhD & MS

Over 385 PhD Graduates since 1998

- >85% go on to postdoctoral positions in:
 - Universities
 - Government (NIH)
 - Industry/Biotech
- Remainder continue at professional schools (medicine, law) or go directly into non-research teaching jobs
- >20% hold faculty positions

Office of Postdoctoral Affairs

- Provides service to postdoctoral scholars and faculty supervisors.
- Enhance learning and productivity of WSU postdocs through policies to include;
 - Centralized appointment process
 - Common, but flexible, curriculum for training
 - Providing equal access to university resources and benefits regardless of funding source
 - Establishing time frame for postdoctoral transition to independence
 - Establishing a minimum baseline stipend, plus a stipend scale

Office of Postdoctoral Affairs

- Facilitate effective mentoring and progress through creation of a required Individual Development Plan (IDP) with annual review
- Conducting an entry/exit interviews
- Exploring career development options, such as:
 - Expanded educational curricula, writing workshops, assisting in training grant applications, career opportunities in industry and other private sectors, etc.

Research

Research Strengths

- Wayne State University is ranked 47th in the nation by the National Science Foundation in research expenditures in the medical sciences
 - WSU School of Medicine overall >\$114M in FY2007
 - Top half of all medical schools

Research Strategic Foci

- Centers of Excellence
 - Cancer
 - Maternal and Child Health
 - Neurosciences
 - Urban Health
 - Cardiovascular Medicine

Research Strategic Foci

- Cancer
 - WSU's Barbara Ann Karmanos Cancer Institute is one of just 41 NCI designated comprehensive cancer centers in the nation
 - It is one of only 11 free standing cancer centers
 - Research is conducted across five major core programs
 - Breast Biology, Proteases and Cancer, Molecular Oncology and Genetics, Developmental Therapeutics and Population Sciences
 - KCI is supported by nearly \$40 million in annual peer reviewed direct funding

Research Strategic Foci

- **Maternal and Child Health**
 - WSU is home of the Perinatology Research Branch of the National Institutes of Child Health & Human Development
 - One of just three and largest NIH intramural branch outside of Maryland
 - Department of Obstetrics and Gynecology
 - Ranked in the top 10 as measured by NIH research funding
 - Participating member in the NIH/NICHD Cooperative research programs in Maternal-Fetal-Medicine and Reproductive Endocrinology/Infertility
 - Home of the C.S. Mott Center for Human Growth and Development which has recently undergone a nearly \$20 million dollar renovation

Research Strategic Foci

- **Neurosciences**
 - Anatomy/Cell Biology & Ophthalmology's Core Vision Center grant has been successfully renewed for years 26-30
 - Only 35 vision grants available in the US, which attests to the robust nature of vision research fostered here at WSU
 - Psychiatry serves as the lead institution for national cooperative studies in:
 - Schizophrenia and bipolar disorders
 - Substance abuse in persons living with HIV/AIDS
 - Opioid dependence and pain management
 - Pediatric obsessive compulsive disorder
 - Neurology is a national leader in sponsored research in multiple sclerosis

Research Strategic Foci

- Urban Health
 - SOM is home to one of just eight NIH designated transdisciplinary centers for the study of racial and ethnic health disparities: Center for African American Urban Health (CUAAH)
 - Focus: 3 thematically linked projects aimed at understanding the contributory factors (i.e., genetics, lifestyle, diet) and how these factors interact in the development of obesity, cardiovascular diseases and breast cancer.

Research Strategic Foci

- Cardiovascular
 - Genesis of the Cardiovascular Research Institute (CVRI) in February 2008
 - Emphasis on multidisciplinary and translational, 'bench to bedside' research
 - Areas of excellence include: myocardial ischemia-reperfusion injury, heart failure, thrombosis, cerebral ischemia

Clinical Care

Clinical Care

- Wayne State University Physician Group
 - 556 credentialed providers
 - One of Michigan's three largest physician groups

Clinical Care

- Our faculty physicians
 - Committed to delivering quality patient care within the framework of education and research
 - Committed to caring for the under- and uninsured
 - Unique training and expertise
 - Nationally recognized in their fields

Clinical Care Major Responsibilities

- Tertiary/quaternary care referral practice
 - Developing and applying the latest treatments and advanced technologies
 - “Bench to bedside” research
- “Safety net” services: Delivery of care to the under- and uninsured by WSU School of Medicine faculty physicians

Clinical Care Opportunities

- Implementation of a single, multispecialty physician group to enable
 - Integration of the education, research, and clinical care missions
 - Development of a single strategic direction
 - The practice of evidence-based medicine
 - Best business practices

Clinical Care Opportunities (cont'd)

- Develop an ambulatory center of excellence that enables
 - A stable practice environment for faculty
 - Wayne State University physician pride
 - A “patient-centric” service culture
 - Positive promotion of the Wayne State University name by an identifiable location



**WSUPG proudly congratulates its doctors
selected by their peers as experts in clinical care**

**CASTLE CONNOLLY
AMERICA'S
TOP DOCTORS**

- | | | | |
|-----------------------|-----------------------|-----------------------|----------------------|
| Dr. Gary Abrams | Dr. Lawrence Flaherty | Dr. Lawrence Morawa | Dr. Joel Steinberg |
| Dr. Frank Baciewicz | Dr. Conrad Giles | Dr. Robert Morris | Dr. Manuel Tancer |
| Dr. C. Balakrishnan | Dr. Murali Guthikonda | Dr. Milton Mutchnick | Dr. Jeffrey Triest |
| Dr. Patricia Brown | Dr. John Jacobs | Dr. Edson Jose Pontes | Dr. James Tyburski |
| Dr. Lavoisier Cardozo | Dr. William Kupsky | Dr. John Rotary | Dr. Bruce Washington |
| Dr. Michael Cher | Dr. Richard Lewis | Dr. Noreen Rossi | Dr. Donald Weaver |
| Dr. Carl Christensen | Dr. Robert Lisak | Dr. Wael Sakr | Dr. Michael White |
| Dr. Murray Ehrinpreis | Dr. Robert Mathog | Dr. Charles Schiffer | Dr. Suzanne White |
| Dr. John Flack | Dr. Stephen Migdal | Dr. Jack Sobel | Dr. George Yoo |

Best Doctors

- | | | | |
|------------------------|----------------------|----------------------|-----------------------|
| Dr. George Alangaden | Dr. Yee Garbern | Dr. Robert Mentzer | Dr. Jack Sobel |
| Dr. Eric Ayers | Dr. Bernard Gonik | Dr. Edwin Monsell | Dr. Robert Sokol |
| Dr. Evan Black | Dr. Mark Juzych | Dr. Isaac Powell | Dr. Alexandros Tselis |
| Dr. Diane Brown | Dr. John Kaimholz | Dr. Shankar Rau | Dr. Joseph Uberti |
| Dr. P.Cadnapahornchai | Dr. Dana Kissner | Dr. Andrew Rowley | Dr. Manual Valdivies |
| Dr. P.Chandrasekar | Dr. Diane Levine | Dr. John Ruckdeschel | Dr. Craig Watson |
| Dr. Seemant Chaturvedi | Dr. Richard Lewis | Dr. Charles Schiffer | Dr. Donald Weaver |
| Dr. Jonathan Cohn | Dr. Jun Li | Dr. Aashit Shah | |
| Dr. Lawrence Crane | Dr. Robert Lisak | Dr. Anthony Shields | |
| Dr. John Crissman | Dr. Patricia LoRusso | Dr. Wilbur Smith | |

**WAYNE STATE
UNIVERSITY**
SCHOOL OF MEDICINE

**“Vision 2011”
Academic Missions**

“Vision 2011”

The Richard J. Mazurek, M.D. Medical Education Commons will be a regional hub for high tech teaching of medical students and residents



“Vision 2011”

- The School of Medicine will remain Michigan’s dominant force in medical education and its primary supplier of physicians

“Vision 2011”

- WSU will be a recipient of the NIH's Clinical and Translational Science Award (CTSA) program
 - WSU and its School of Medicine, along with Henry Ford Health System, submitted the CTSA application in June 2008
- The School's interdisciplinary research focus will have enhanced our culture of collaboration
 - Among SOM departments
 - With other University schools and colleges
 - With our research and education partners

“Vision 2011”

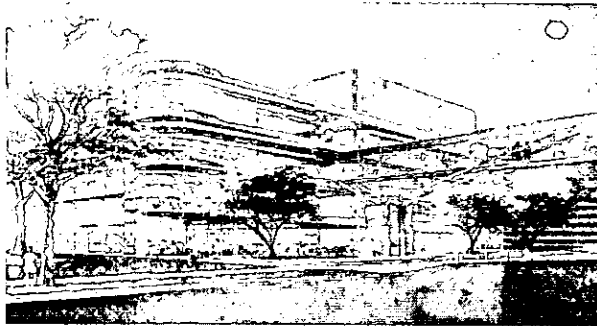
- Our Centers of Excellence will be well-recognized as national role models for interdisciplinary research
 - Cancer
 - Maternal and Child Health
 - Neurosciences
 - Urban Health
 - Cardiovascular Diseases
 - Other Developing Foci

“Vision 2011”

- The School will enhance and expand it's clinical and educational mission with our affiliated community partners
 - Detroit Medical Center
 - Henry Ford Health System
 - Karmanos Cancer Institute/Karmanos Cancer Center
 - Oakwood Health System, Inc.
 - Crittenton Hospital Medical Center
 - Veterans Administration Medical Center
 - Southeast Michigan Center for Medical Education

“Vision 2011”

- Construction will be underway for a new state-of-the-science Biomedical Research Building



“Vision 2011”

- Our new facility will be home to a cadre of research-intensive investigators that will embody a new paradigm of interdisciplinary research and the transfer of technology to the community, region and nation