The NIH Clinical Center



NIH Scientific Management Review Board April 28, 2009



John I. Gallin, M.D. Director, NIH Clinical Center



Outline

- Overview
- Key Challenges



As America's research hospital, we will lead the global effort in training today's investigators and discovering tomorrow's cures.

The NIH Clinical Center Profile



- More than 350,000 patients since opening in 1953; currently follow ~86,000 patients
- A national hospital
- 234 beds
- 1,850 CC employees and ~4,000 IC employees
 - 1,222 credentialed MDs
- 1,449 active protocols

"There's No Other Hospital Like It" So What Makes Us Different?

- Every patient is enrolled on a protocol
- Care is free
- Highly educated nurses familiar with clinical research
- A hospital surrounded by research labs with gifted investigators
- 1st in human clinical trials
- Unique cohorts of patients with rare diseases
- Long term and high intellectual/economic risk studies
- Rapid response to public health emergencies and scientific opportunities

Selected Accomplishments

- Chemotherapy and immune therapy for cancer
- 1st platelet transfusions; 1st continuous flow blood cell separator
- Lithium for bipolar disorders
- Blood tests for AIDS, hepatitis
- 1st gene therapy (ADA Deficiency)
- Pathogenesis and treatment of AIDS
- 1st fluoride gels to treat dental caries as an infectious disease
- Cardiac MRI for chest pain to identify high vs low-risk pts.
- Technology for human papilloma virus vaccine
- PET scans to clarify some abnormalities in schizophrenia

Specialized Services and Facilities

- GMP facility for producing candidate drugs
- Imaging equipment
 - 3 cyclotrons
 - MRI center
- Biomechanics laboratory
- Blood products; stem cell
- IT Tools for clinical resea suite
 ProtoType
 BTRIS
- Phenotyping



Multi-modality minimally-invasive procedural suite

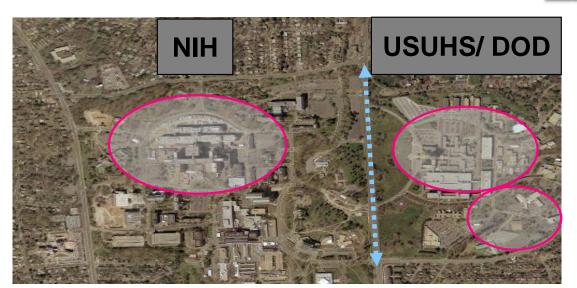


TBI/PTSD Initiative-2009

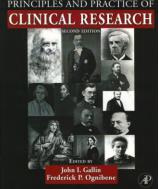
Partnership with USUHS & DOD

- \$70M
 - ~\$8.8M expected to CC ~\$800K Rehab Med
 - ~\$8M Radiology
- Soldier and civilian participants



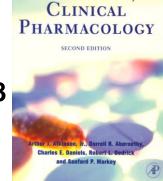


NIH Training Curriculum In Clinical Research

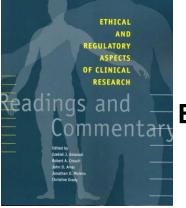


Introduction to the Principles & Practice of Clinical Research >7,600 participants since course introduced in 1995

Principles of Clinical Pharmacology >4,500 registrants since course began in 1998

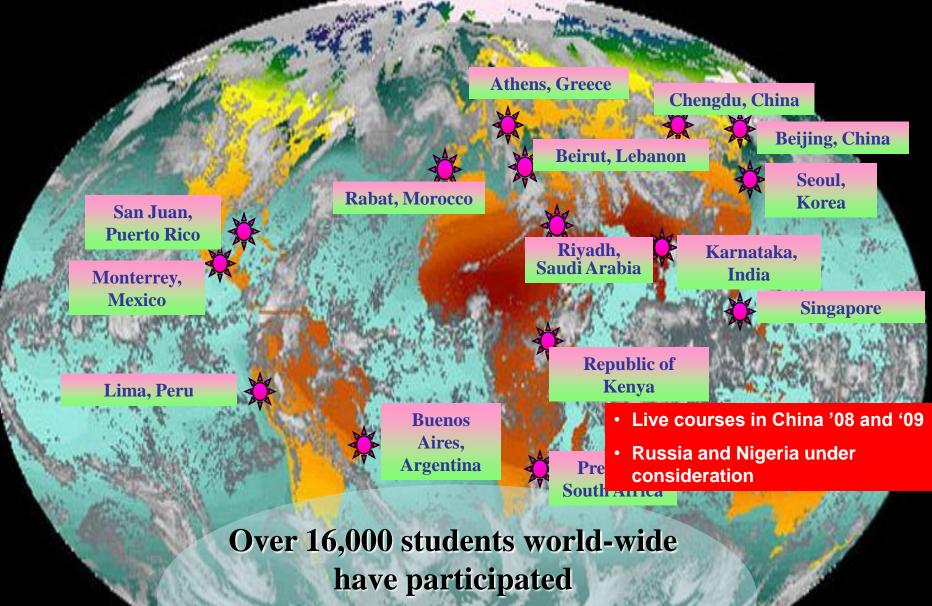


PRINCIPLES of



Ethical and Regulatory Aspects of Human Subjects Research >3,400 participants since course began in 1999

April 2009



in the NIH Curriculum

in Clinical Research

2009 Training Initiatives to Support Extramural AHCs

Sabbatical in clinical research management

 Inventory and build virtual clinical research "university" within CTSA network

Barrier: Prohibition of co-mingling intramural and extramural \$

Bench-to-Bedside Awards Promote Intramural/Extramural Partnerships

\$4.5 M/year from:

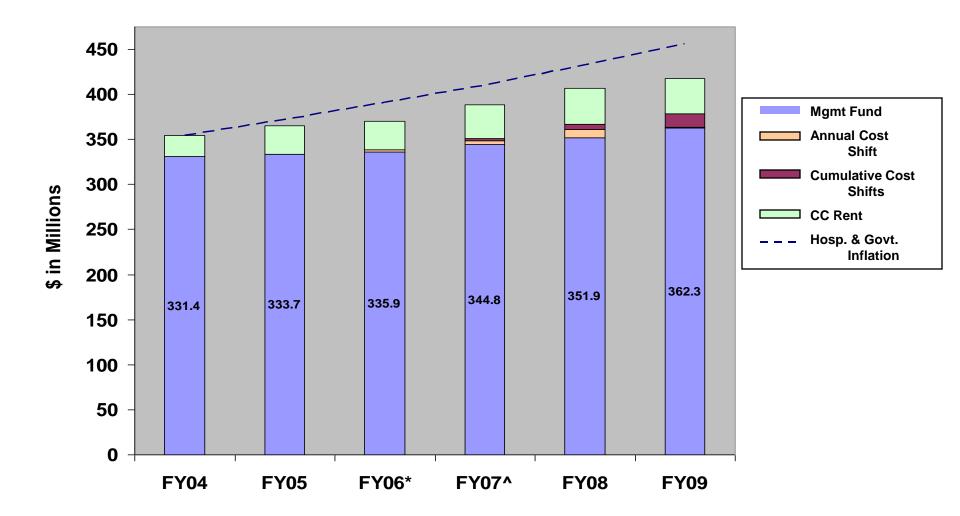
- NIH offices/centers
- FDA
- intramural programs
- Supports ~17 awards/year; 47 AHC partnerships

Next Steps: Secure stable long-term funding

The Key Challenges

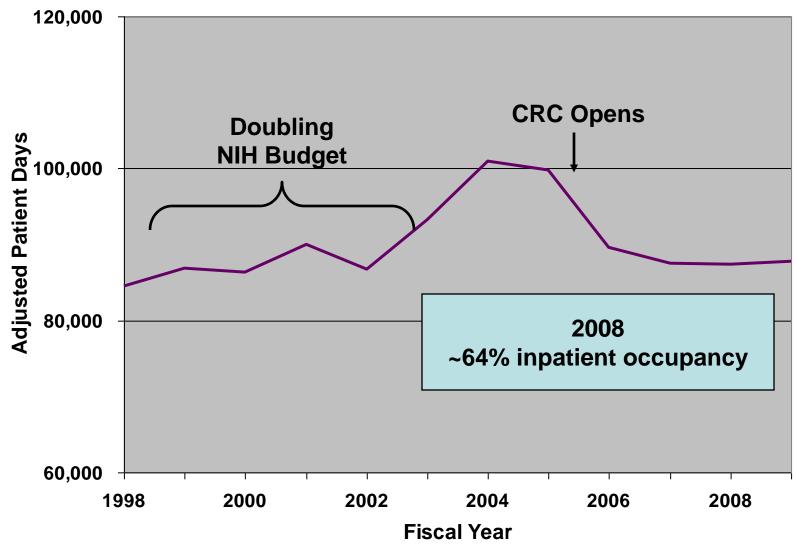
- Budget
- Patient Activity
- Protocol Activity
- Pls

CC Budget FY 2004-FY 2010



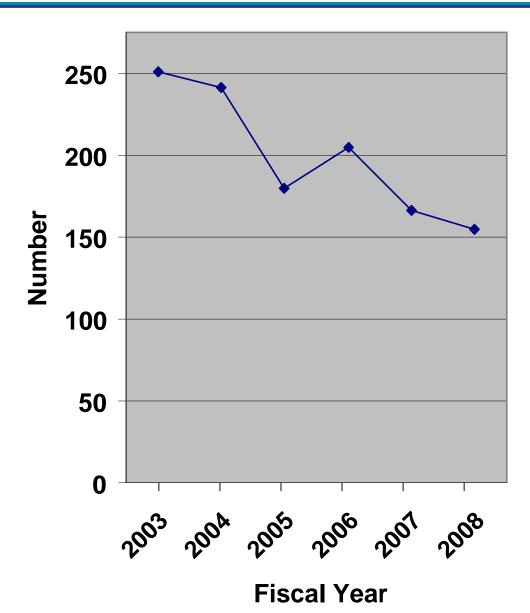
*FY06 includes budget neutral adjustments for security (\$2.2M) and NIBIB transfer (-\$1.5M). ^FY07 includes budget neutral adjustment for CRIS (\$6.5M) Hospital inflation rate source: R-C Healthcare Management (Feb 12, 2008)/HFMA

Adjusted Patient Days* (FY 1998 – 2009)

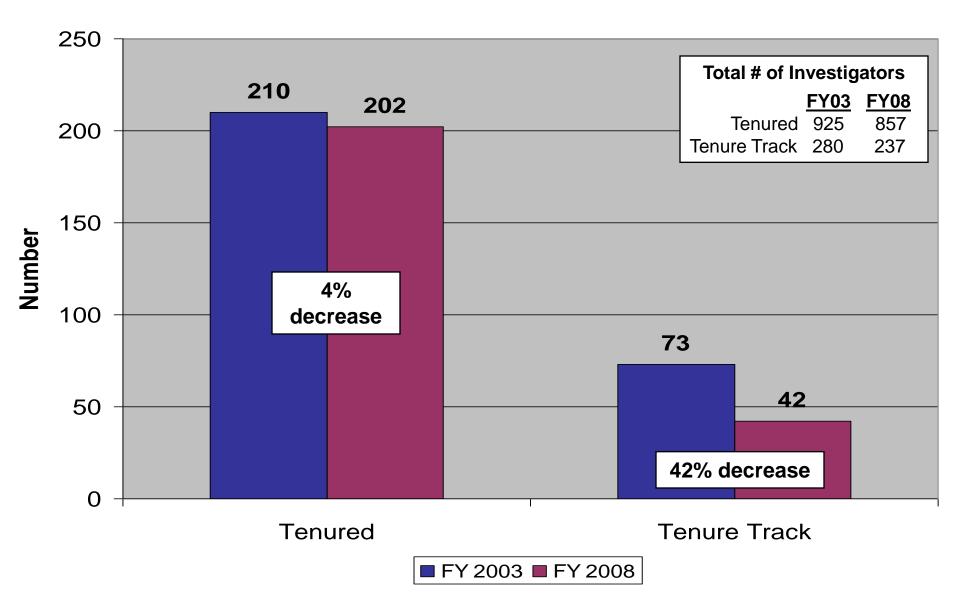


* Adjusted Patient Days = Inpatient Days + (Outpatient Visits x 0.4)

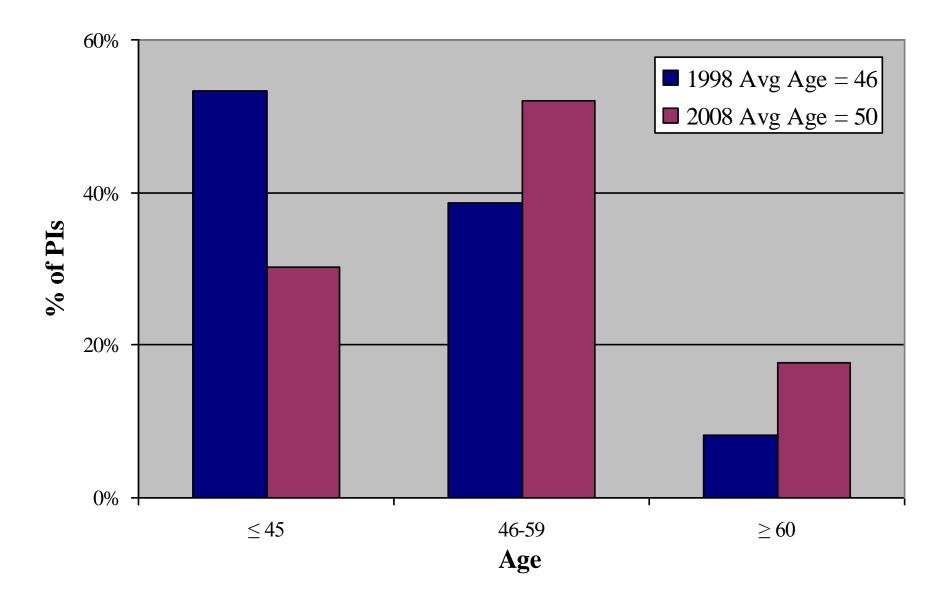
New Research Protocols



Pls on Clinical Protocols



Aging of Clinical Pls



Recruitment Challenges

- Conflict of interest
- Expensive housing/childcare

Salaries

Summary

Key Challenges

- Budget 5 yr. relatively flat; prohibition of comingling intramural and extramural \$
- Patient Activity untapped capacity
- Protocol Activity # new protocols ↓
- Principal Investigators ↓ tenure track; aging; recruitment challenges

Opportunity

 Strong infrastructure for clinical research, model for the nation, opportunity for future accomplishments

Questions for the SMRB about the Clinical Center

- Can we create a business model that makes the CC viable for the foreseeable future?
- How can we align the research requirements of the intramural research program with the new business model for the CC, and encourage intramuralextramural interactions?