

Medical Devices: Innovation and Regulation

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AdvaMed Submissions Workshop 2003



FDA and Change

“You won’t recognize FDA
a year from now”

Secretary Tommy Thompson
2002



Performance Based Budgeting

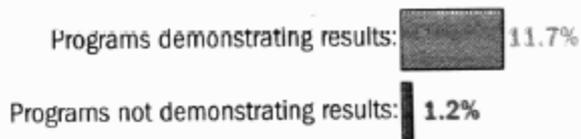
NOT MEASURING UP

Why Managers Are Failing To Measure Their Programs' Results

By MOLLIE ZIEGLER

THE PENALTY

Programs that could not measure results received far smaller funding increases than other programs for fiscal 2004. How average percentage funding increases compare:



SOURCE: President Bush's Fiscal 2004 Budget Request

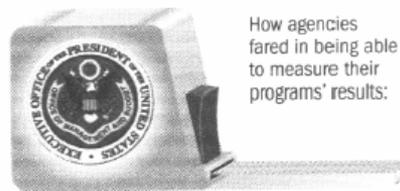
GRAPHIC BY MARCIA STAIMER

measure their results ended up with an average percentage funding increase of 1.2 percent. By comparison, programs that do measure their results — regardless of whether those results were good or bad — did much better. Programs deemed to be ineffective in achieving their results, for example, received on average a 6.6 percent increase.

As the evaluation expands — OMB will assess 100 percent of federal programs each year until all are assessed for the fiscal 2004 budget — the scrutiny will increase. Because the same evaluation method will be used on similar programs in different departments, programs will go head-to-head to see which perform better. Entire programs could be cut and have their funding applied to better-performing programs.

And although it is more important than ever for managers to be able to measure their programs' results, most are not able to. Managers faced two main obstacles last year in demonstrating their programs' results: poor measures or lack of data. More than nine out of 10 did not develop appropriate measures with which to measure

NO RESULTS MEASURED



How agencies fared in being able to measure their programs' results:



* Includes programs of Agency for International Development and other international affairs agencies

performance first. Page 6

Guidance: A new assessment tool puts focus on results. Page 7

pose, it could not. It didn't have the data to indicate it was meeting its goals.

OMB assessed 234 programs last year — 20 percent of all federal programs — in its first attempt to base budgeting decisions upon programs' performance. More than half of those pro-





Changes: CDRH

FDAMA Implementation

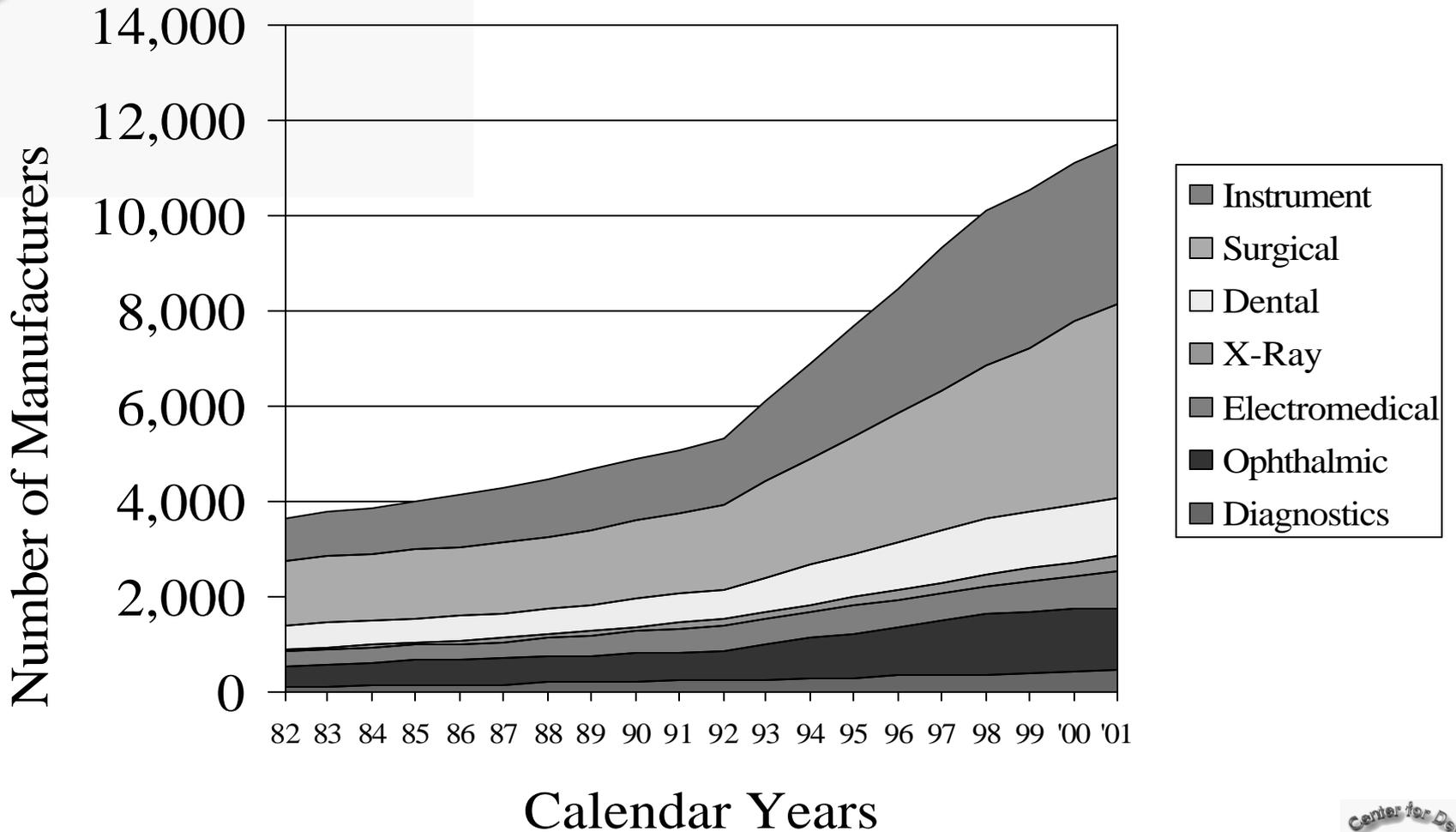
- Least Burdensome



Medical Device User Fee and Modernization Act of 2002 (MDUFMA)

- Resources
- Statutory Changes

Device Industry Growth by Device Group



Note: 1998 & 2001 used Dun & Bradstreet Data; Other years used Dept. of Commerce Data to include secondary products..



Medical Device Program

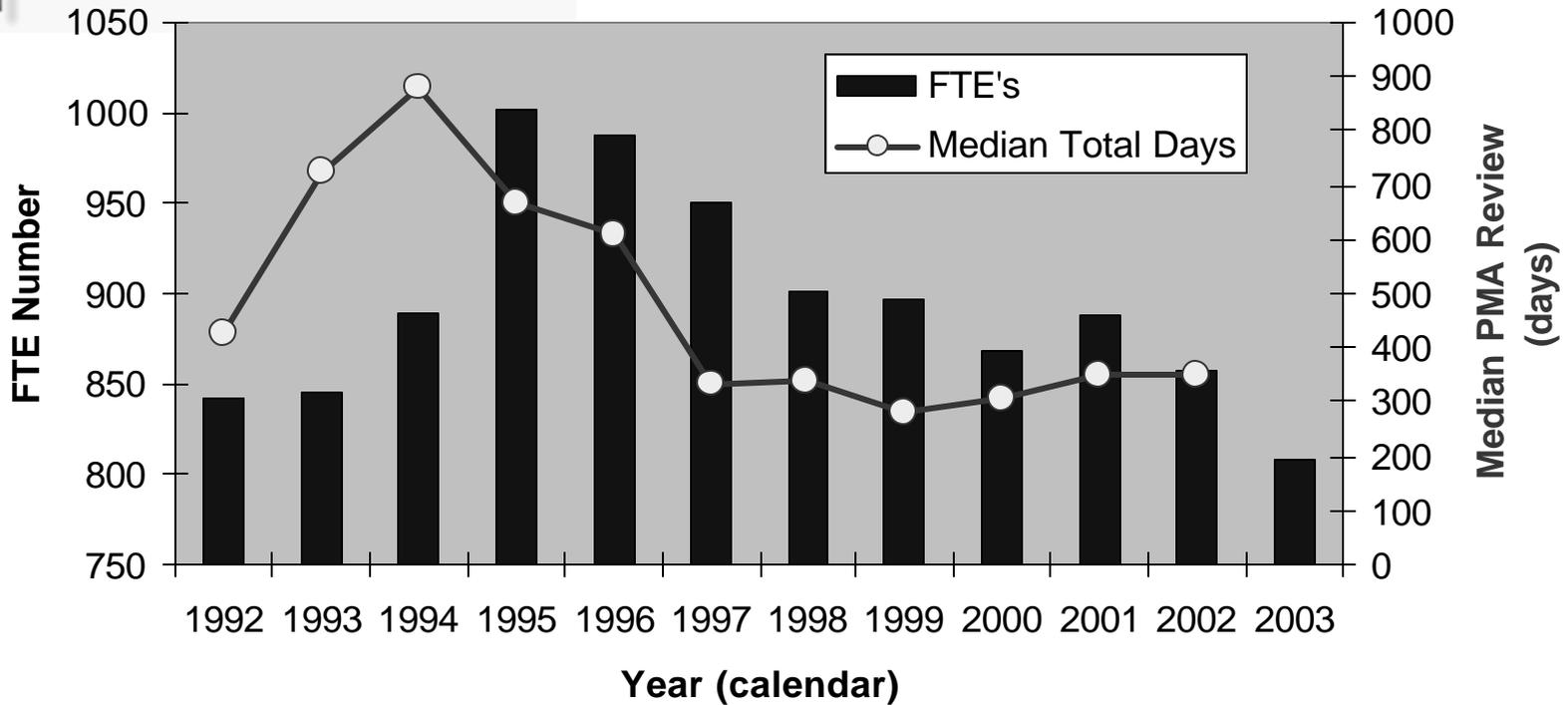
CDRH: Types and numbers of submissions

TYPE OF SUBMISSION	FY1997	FY1998	FY1999	FY2000	FY2001	FY2002
Original PMAs	66	47	60	67	70	48
PMA Supplements	409	513	552	545	641	644
Original IDEs	297	322	304	311	284	312
IDE Amendments	223	226	275	240	206	252
IDE Supplements	3,776	4,277	4,127	4,388	4,811	4,724
510(k)s <small>(10% with clinical Data)</small>	5,049	4,623	4,458	4,202	4,248	4,320
Original HDE	4	8	12	11	5	5
HDE Supplements	0	0	4	10	16	16
Total	9,824	10,016	9,792	9,774	10,281	10,321

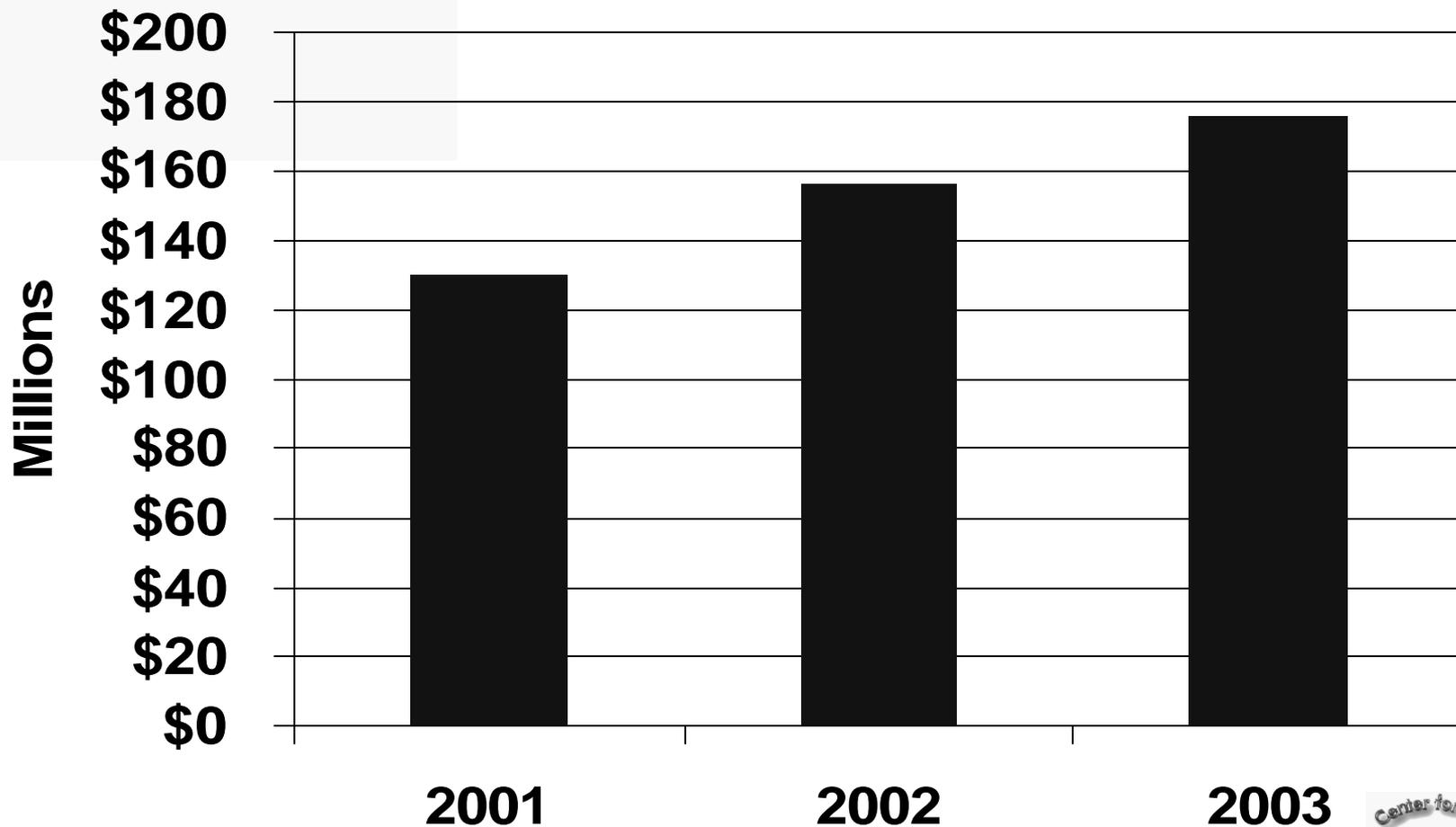


Performance

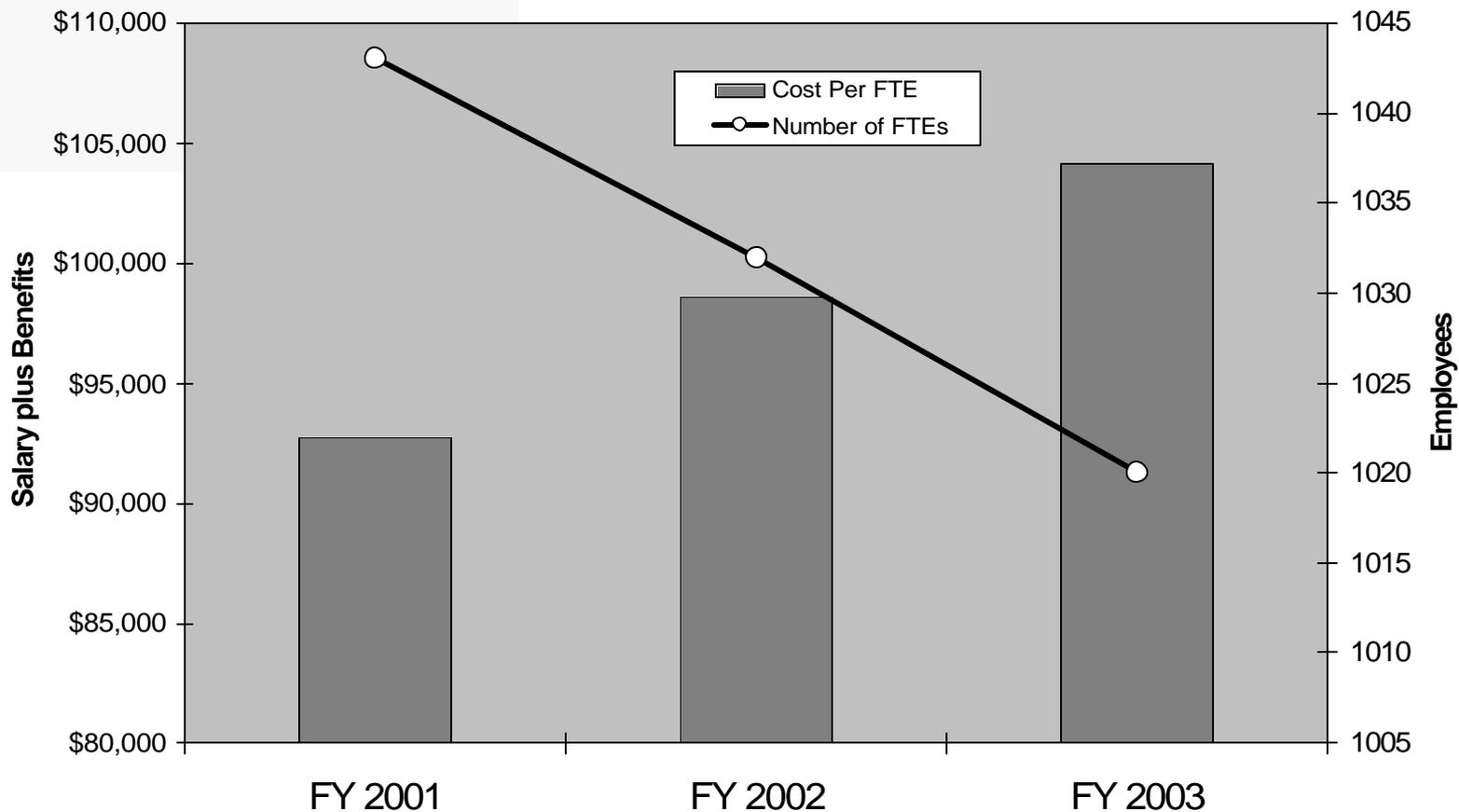
PMA Review Times and Number of FTE's



Device Program Budget



Center Staff Costs



Note: these staff reductions are above and beyond the 8% reduction (about 100 FTE's) that occurred between 1995 – 2000)



Performance 2002 vs. 2001

FDA Times are slipping

- Although 25% fewer standard PMA's were approved they took 2 days longer to approve
- Modular PMA reviews took 74 days longer
- Expedited reviews took 72 days longer
 - 86 days longer than a standard PMA
- 510(k) reviews took 4 days longer
- Shortage of field resources delayed some approvals
- Meetings more difficult to schedule



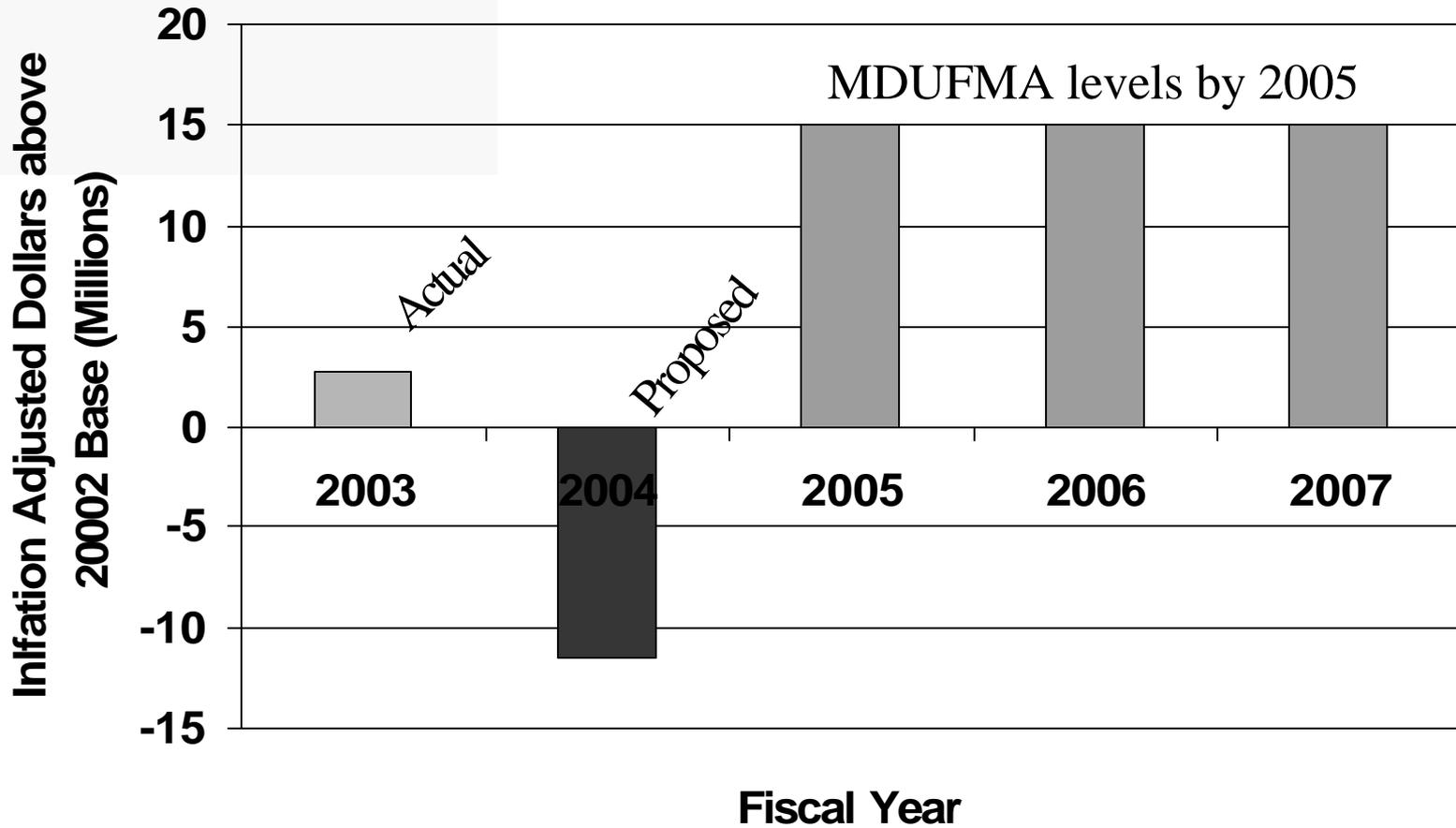
2003 CDRH Budget Increases

... the details

	Pay Raise	Counter-terrorism	MedSun
Center	\$3726	\$1284	\$1500
Field	\$1447	\$3638	0

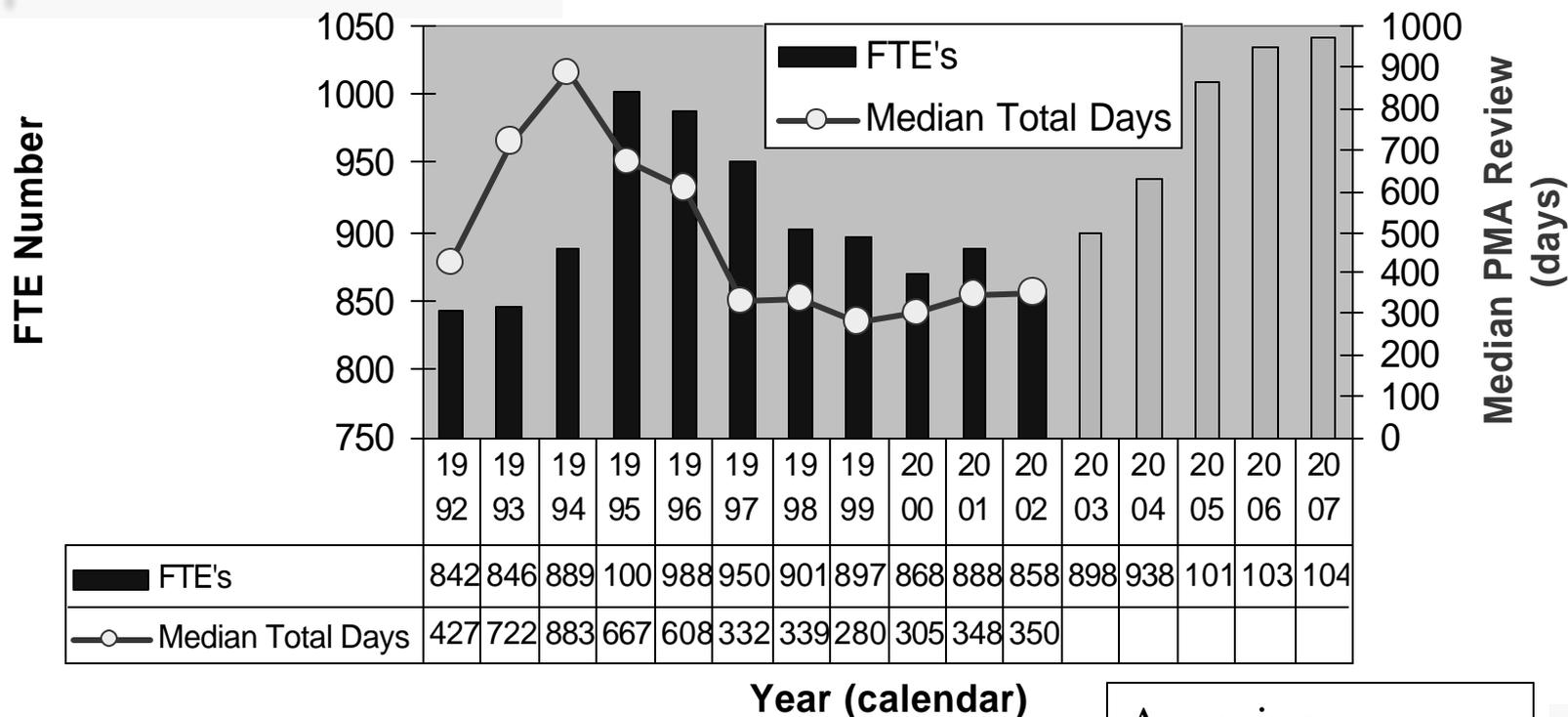
MDUFMA Appropriation

Levels



Performance

PMA Review Times and Number of FTE's



Assuming appropriations on track by 2005



Legislation: MDUFMA

User Fee's

- Tiered Fee Scale for small manufacturers
- Performance Targets
 - Priority review
 - PMA's and supplements
 - 510(k)'s
- Predictable income
 - No disincentive for down-classification
 - Different from PDUFA where income fluctuates with workload

Legislation: MDUFMA

Changes and Issues:

- Combination Products
- Third Party Inspection
- External Experts
- Re-Use of Single Use Devices
- Devices for Children
- Breast Implants

Changes: CDRH

Medical Device User Fee and Modernization Act of 2002 (MDUFMA)

- Resources
- Statutory Changes



CDRH Strategic Plan

- Office of IVD
- Knowledge
Management
- Score Cards



Organizational Changes:

CDRH

New Leadership

- Office of Device Evaluation
 - Dan Schultz, M.D., Director
- Office of in Vitro Drug Products
 - Steve Gutman, M.D., Director
- Office of Surveillance and Biometrics
 - Susan Gardner, Ph.D. Director
- Office of Science and Technology
 - Larry Kessler, Ph.D., Director
- Office of Systems Management
 - Ruth Clements, Director
- Office of Compliance
 - Tim Ulatowski, Director



CDRH Medical Device Fellowship Program

Physicians

- Visiting Scholar – senior level clinicians, surgeons
- Fellow - physician during fellowship training
- Resident – physician during residency training
- Medical student
- Consultant – generally off-site experts available for consultation

Engineers

- Visiting Scholar – senior level engineer
- Consultant – generally off-site experts available for consultation
- Students
- Biomedical Engineering Co-op Program
- Engineering internships

Others

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Strategic Plan

How to implement ?

- Goal Area work groups and projects
- Center-Wide Score Cards
 - Link the Strategic Goal Areas to *Key Results Areas* (KRA's)
 - Measure performance in each KRA with *Key Indicators* (KI's)
 - Recruit:
 - Measurement team to develop KI's
 - Score Card Trainers to develop specific organizational score cards

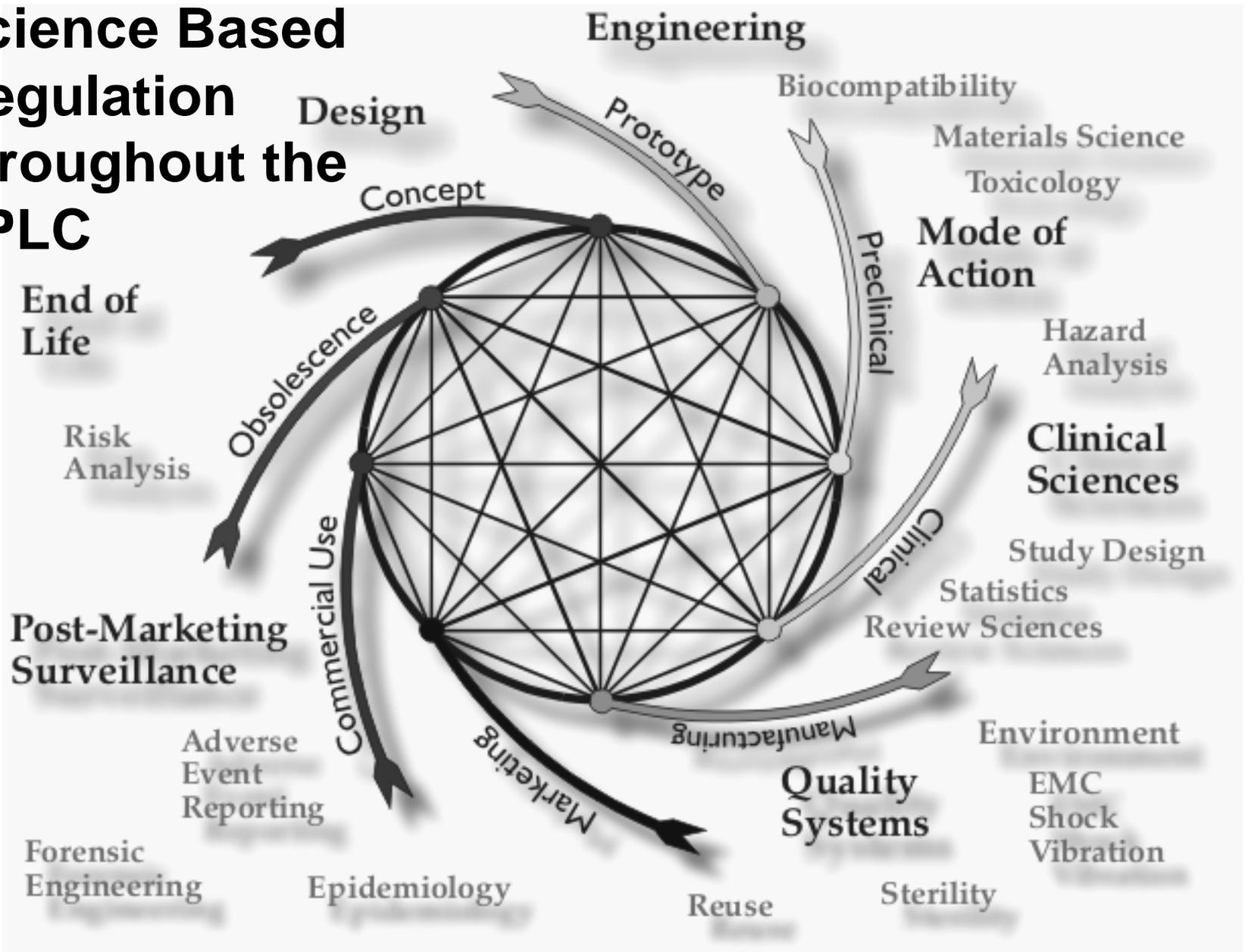
Center for Devices and Radiological Health

Mission:

CDRH promotes and protects the health of the public by ensuring the safety and effectiveness of medical devices and the safety of radiological products.



Science Based Regulation throughout the TPLC



Performance Scorecards

Key Results Areas

- Public Health Protection
- Public Health Promotion
- Operational Accountability
- Stakeholder Collaboration
- Workforce Excellence
- Strategic Directions

Performance Scorecards

Key Results Areas and Key Indicators

1. Public Health Protection
 - Monitoring Index: Identifying Hazards
 - Follow-up and Resolution Index: Timely and effective
2. Public Health Promotion
 - Timely Marketing of New Products
3. Operational Accountability
 - Application Review Timeliness Index
 - Application Review Quality Index
 - Inspection Index



Performance Scorecards

Key Results Areas and Key Indicators

4. Stakeholder Collaboration
 - Collaborative Meeting Index
 - External Expertise Engagement Index
5. Workforce Excellence
 - Development Index
6. Vision Attainment
 - Total Product Life Cycle
 - Global Products — Global Quality



Changes: Therapeutic Centers

CDER / CBER Merger of
Biological
Therapeutics

Office of Combination
Products

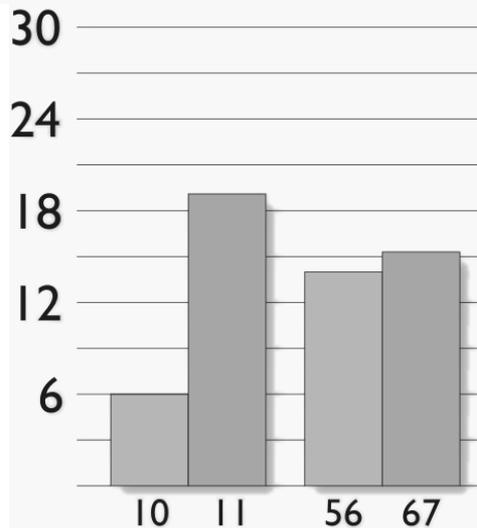
Commissioners
Premarket Initiatives



Review Performance 2001 - 2002

Median Review Time

2001
2002



Priority Standard
NDA: CDER



Commissioner Mark McClellan, M.D., Ph.D.

Improving Innovation in Medical Technology: Beyond 2000

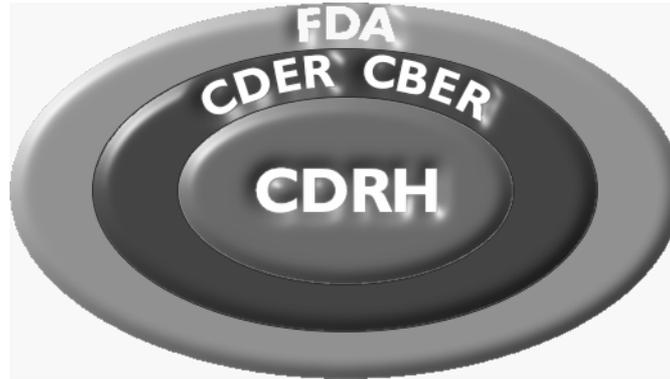
- Eliminate multiple Review cycles
- Instituting a quality systems for pre-market review
- Illuminate the regulatory path for novel products



Changes: FDA

Commissioner's Strategic Objectives

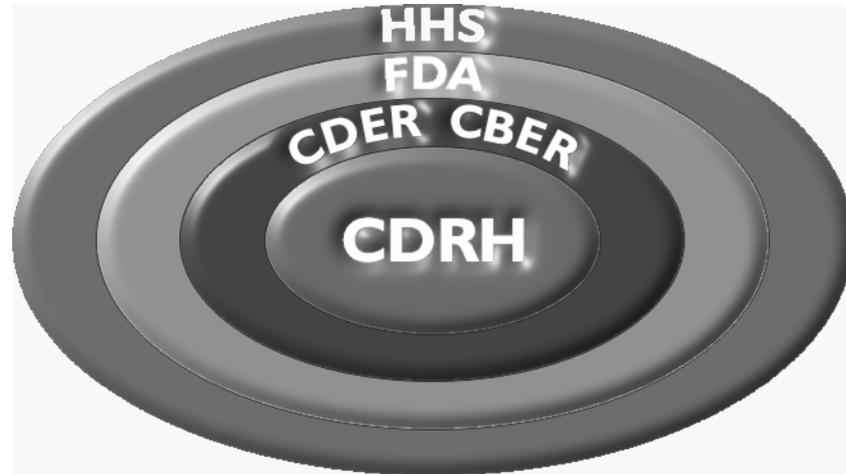
- Strong FDA
- Counter-Terrorism
- Informed Consumers
- Patient Safety
- Risk Management



Changes: HHS

One HHS

- CMS – FDA
MOU on Data
sharing
- Disease – Specific
initiatives
 - Diabetes
 - Obesity



Management Consolidation

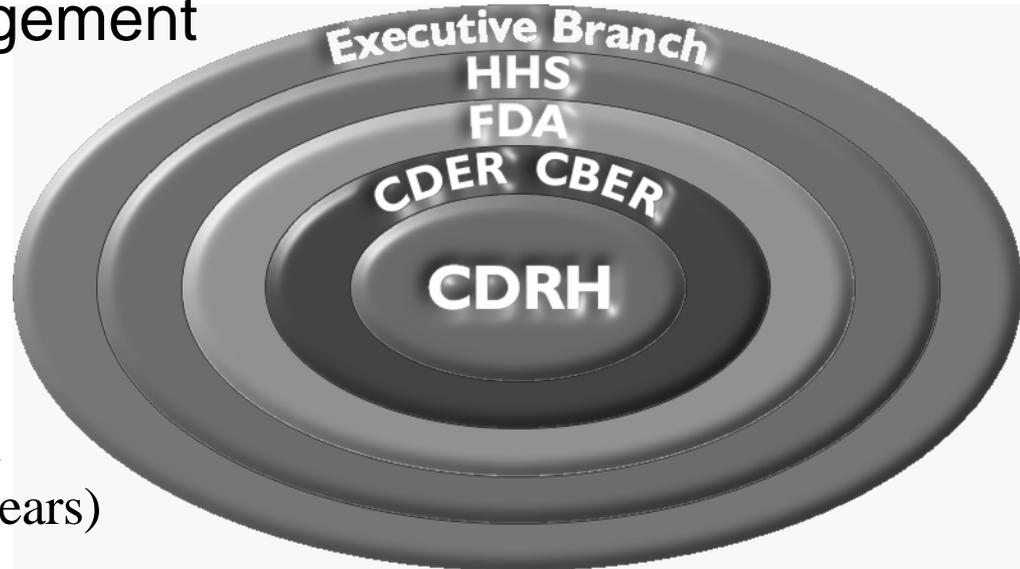
- Human Resources
- Core IT Services



Changes: Executive Branch Wide

President's Management Agenda

- Performance Contracts
- Outsourcing (Target: 25% of Federal workforce in 2 years)
- Delayering
- Administrative Consolidation
- Performance Based Budgeting



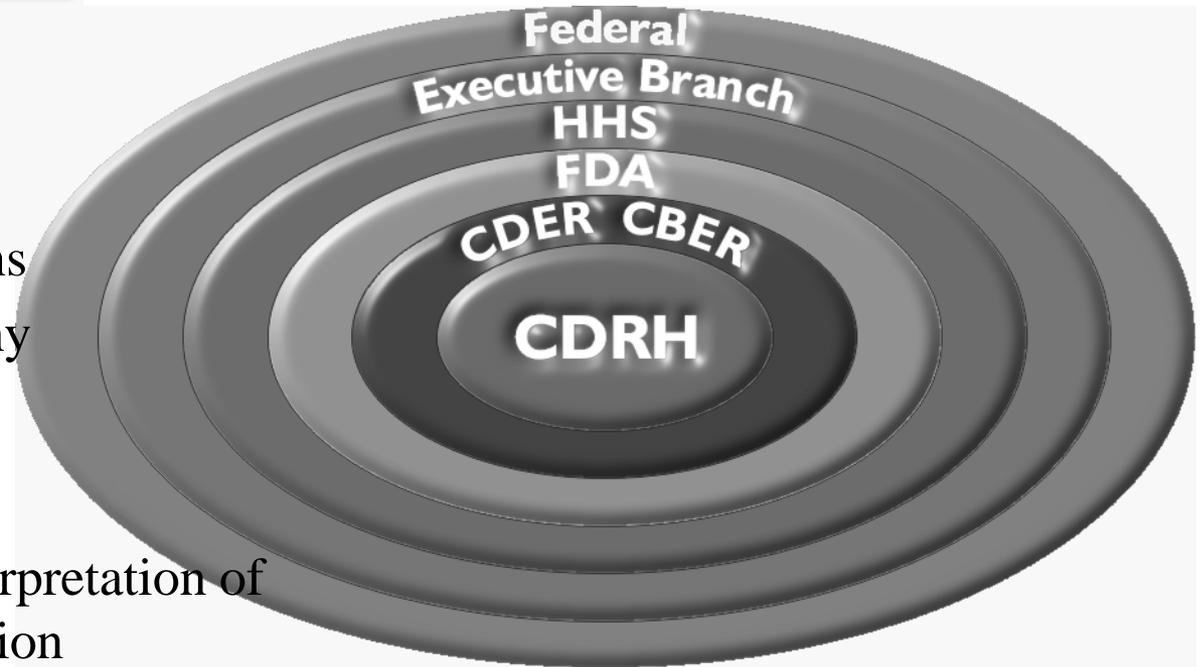
Changes: Federal

Congress

- MDUFMA
- Appropriations
- Mammography

Courts

- Narrower interpretation of FDA jurisdiction



Changes: International



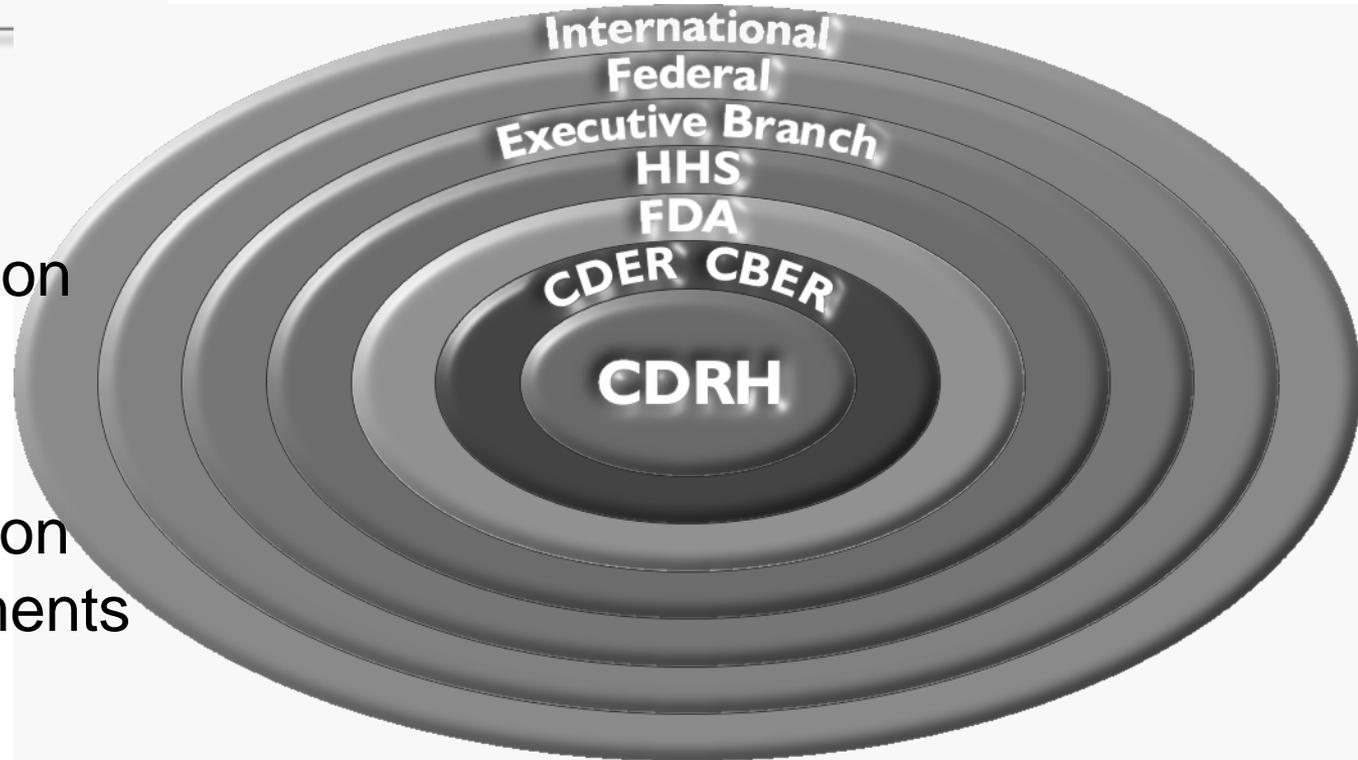
Standards

Harmonization

Mutual
Recognition
Agreements

Trade Agreements

Imports



Globalization

Global Standards



Global Quality



Global Market

Means Global Regulation

- Quality system standards differ
- Premarket requirements differ
- Regional perspectives differ
- Reimbursement decisions differ
- Increasing volume and diversity of imports
- More U.S. manufacturers are using foreign clinical trials

Global Harmonization Task Force



Four study groups:

- Regulatory Requirements / Premarket Review
- Device Vigilance / Post-Market Surveillance
- Quality System Requirements and Guidance
- Auditing

www.ghtf.org





For medical devices ...

... there is nothing new about New

