

Bringing New Agents to Clinic 2009

John L. Marshall, MD
Chief, Division Hematology and Oncology
Director, Developmental Therapeutics and GI Oncology
Lombardi Cancer Center
Georgetown University

The War on Cancer is Declared Richard Nixon, 1971

- "I will also ask for an appropriation of an extra \$100 million to launch an intensive campaign to find a **cure** for cancer, and I will ask later for whatever additional funds can effectively be used. The time has come in America when the same kind of concentrated effort that split the atom and took man to the moon should be turned toward **conquering** this dread disease. Let us make a total national commitment to achieve this goal."

NCI Funding 2005-07

Cancer Site	2005 Spending (actual, in millions)	2006 Spending (estimated, in millions)	2007 Spending (estimated, in millions)
Breast	\$560.1	\$557.3	\$551.1
Colorectal	\$253.1	\$251.9	\$249.1
Lung	\$266.1	\$264.8	\$261.9
Prostate	\$309.0	\$309.0	\$305.6

The US spent \$5.6 billion on cancer research in 2006

Cancer Research – A Super Fraud?

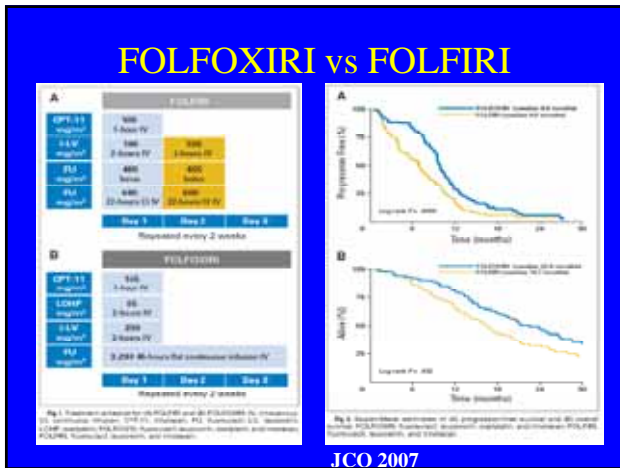
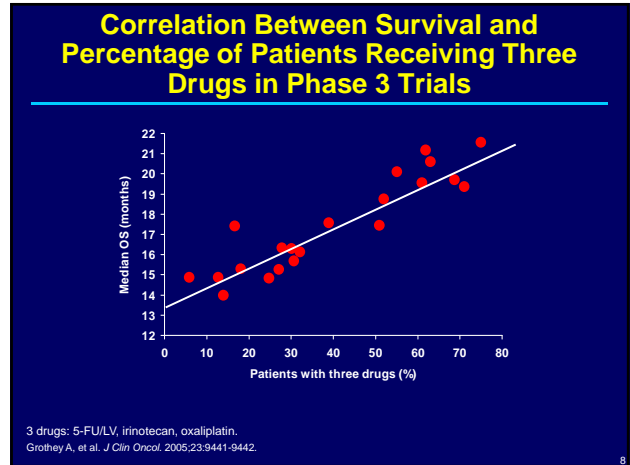
- "Everyone should know that most cancer research is largely a fraud and that the major cancer research organizations are derelict in their duties to the people who support them." - Linus Pauling PhD (Two-time Nobel Prize winner).

What went right?

- Have cured and conquered some cancers
 - Leukemia
 - Lymphoma
 - Germ Cell cancers
 - Childhood Cancers
- Screening/Early Detection/Prevention
 - Breast, Colon, Cervix, Skin

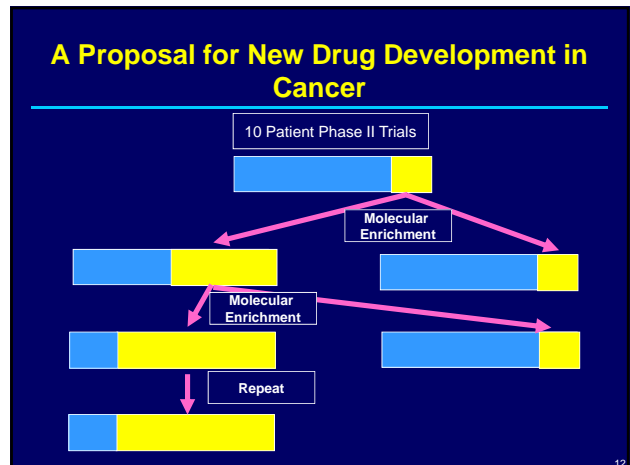
What went wrong?

- Adenocarcinomas
- PFS
- Declaring response rates do not correlate with survival
- Accepting low response rates
- Health Care Costs, no sense of value



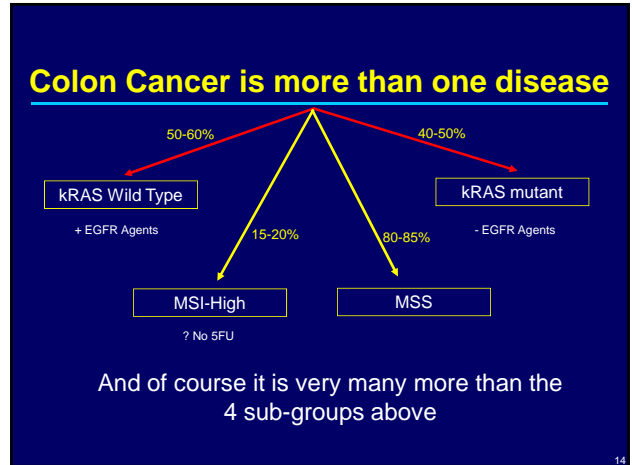
- ### Inconvenient Truths...
- Adjuvant therapy fails most of the time.
 - Only a small percentage are cured with treatment
 - Phase III trials are designed to detect small differences
 - When PFS became acceptable, we decided we were not going to cure cancer
 - Clinical trial accrual in the US is at an all time low.
 - We now “off shore” this to the lowest bidder, most in need?
 - Cancer treatment adds relatively little to survival
 - If you had to pay for it, would you?
 - Cancer as a chronic disease is not the same as other chronic diseases
 - The cost of colon cancer therapy now exceeds the cost of dialysis
 - Many Pipeline drugs- not enough money, not enough patients?

- ### We are in a time of change
- We now acknowledge the errors of the past
 - We have better technology to support the war
 - We are not fighting the same kind of war
 - We know that success will require work, collaboration and sacrifice
 - The rewards are unimaginable
 - Are our hearts in this? Do we have the stomach for it?



Where we are- Co-exist with cancer	Where we need to be- Cure cancer
Safety and Efficacy	Value
Cancers are the same	Cancers are different
Defining cancers by site of origin	Defining cancers by molecular profile
Phase III trials with PFS as endpoint	Phase II trials with response rate as endpoint
Only watching the tumor	Watching the tumor and the host response

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