

NCCS Cancer Policy Roundtable Meeting

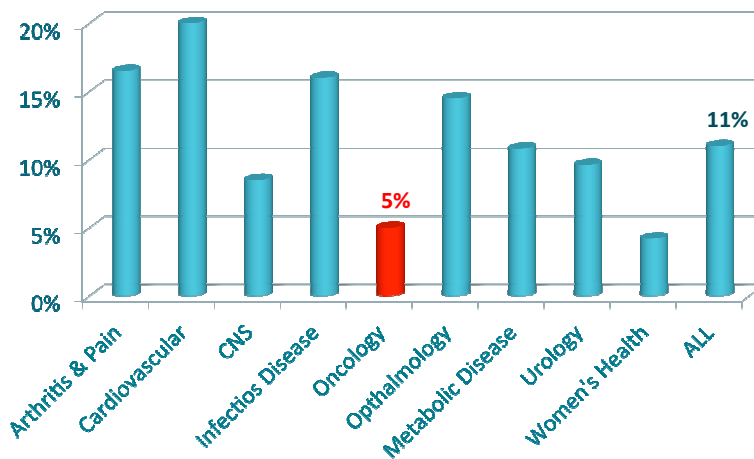
Reinvigorating the Cancer Clinical Research Enterprise

Peter C. Adamson, M.D.
The Children's Hospital of Philadelphia

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ONCOLOGY
GROUP**

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Success Rates for Drug Development




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Adapted from Nature Reviews: Drug Discovery, 3 (8): 711, 2004

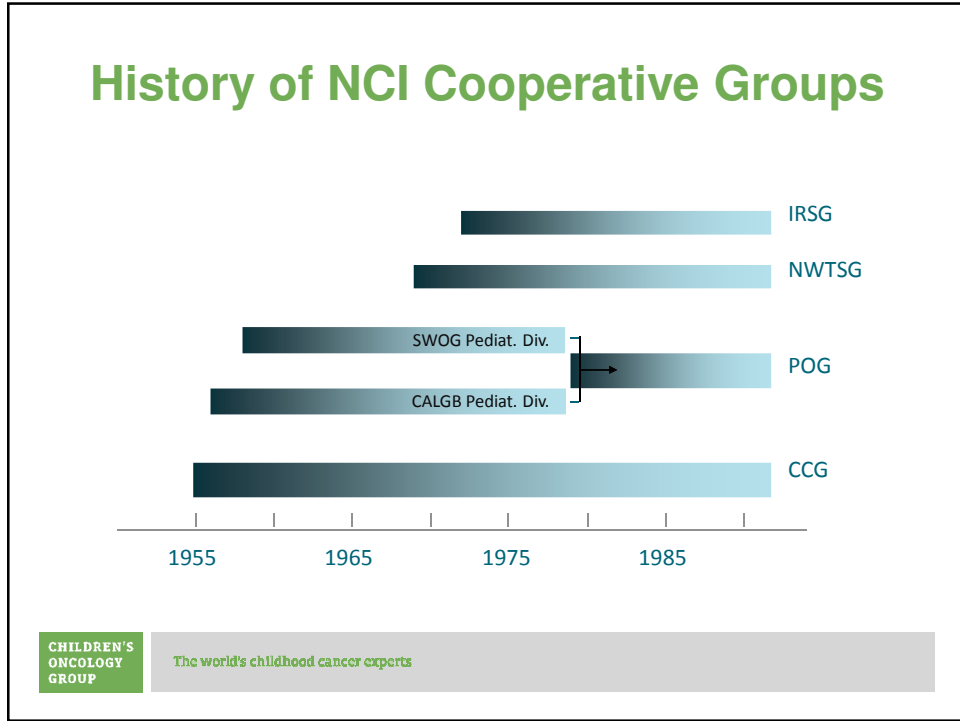
NCI Cooperative Groups

A Brief History



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History of NCI Cooperative Groups



Pediatric
Oncology
Group



CCG

Children's Oncology Group

INTERGROUP
Rhabdomyosarcoma
STUDY GROUP

National
Wilms'
Tumor
Study
Group

2000

Group Mergers

- ECOG
- ACRIN

- RTOG
- NSABP
- GOG

- CALGB
- NCCTG
- ACOSOG

- SWOG

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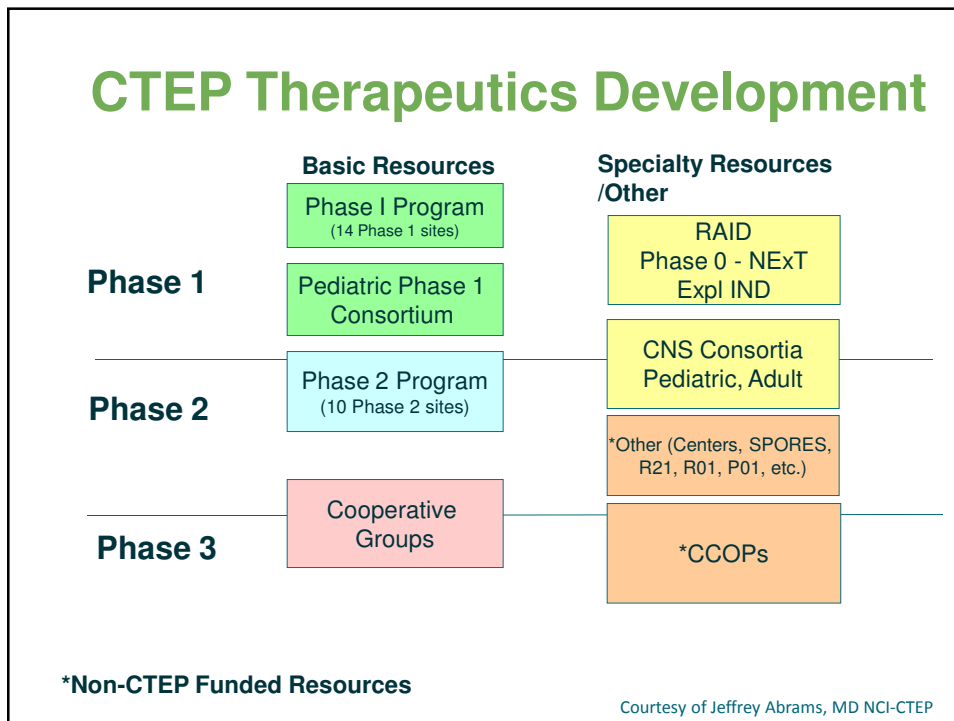
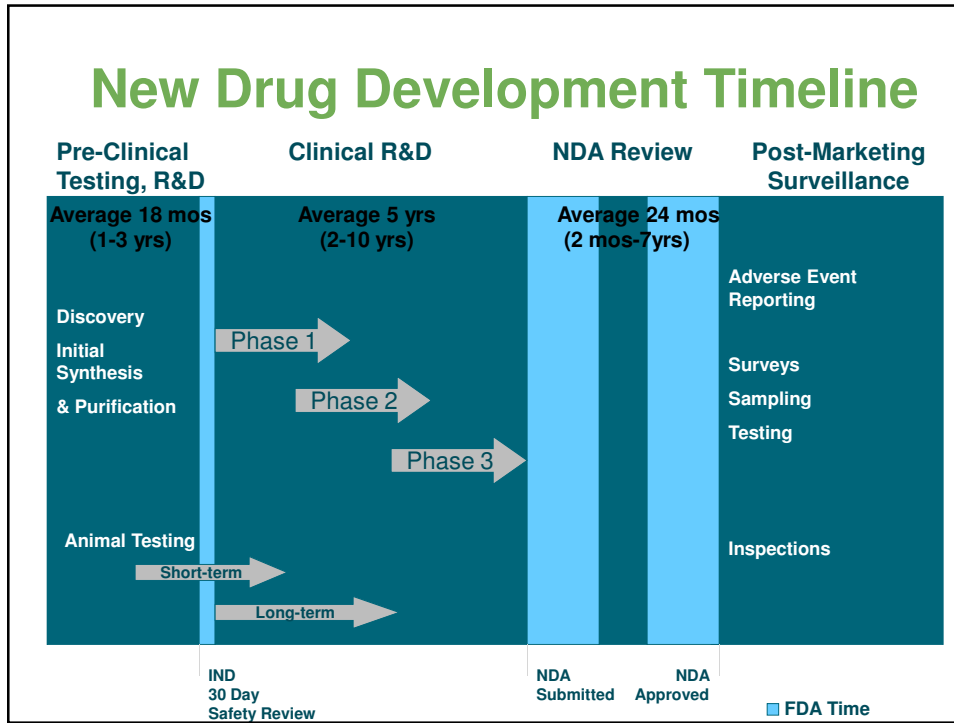
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New Drug Development Timelines

NCI Expanding Infrastructure

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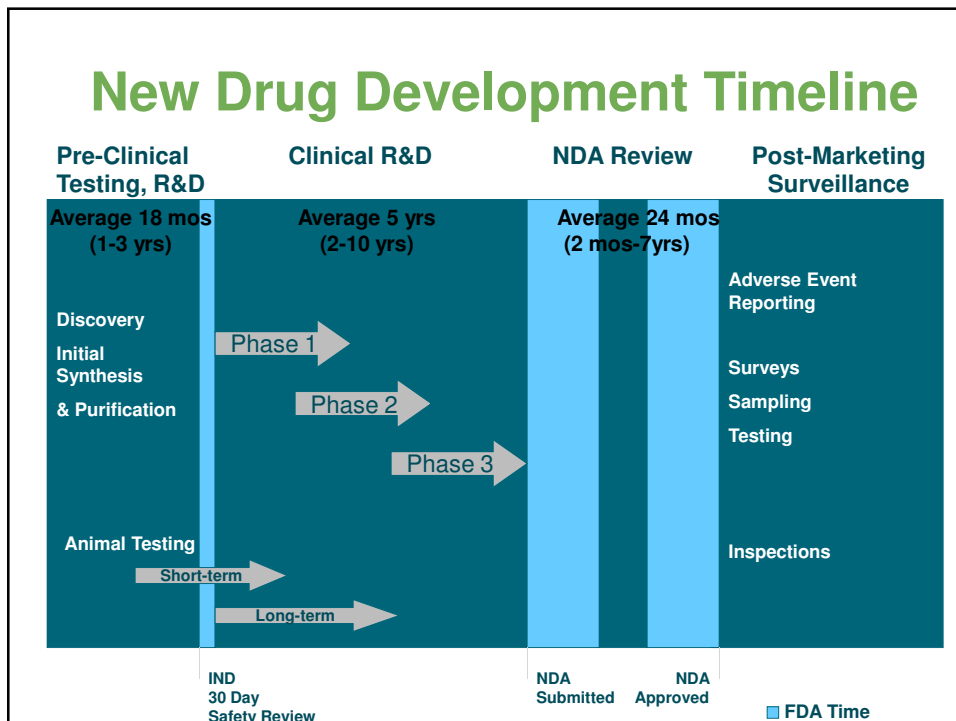
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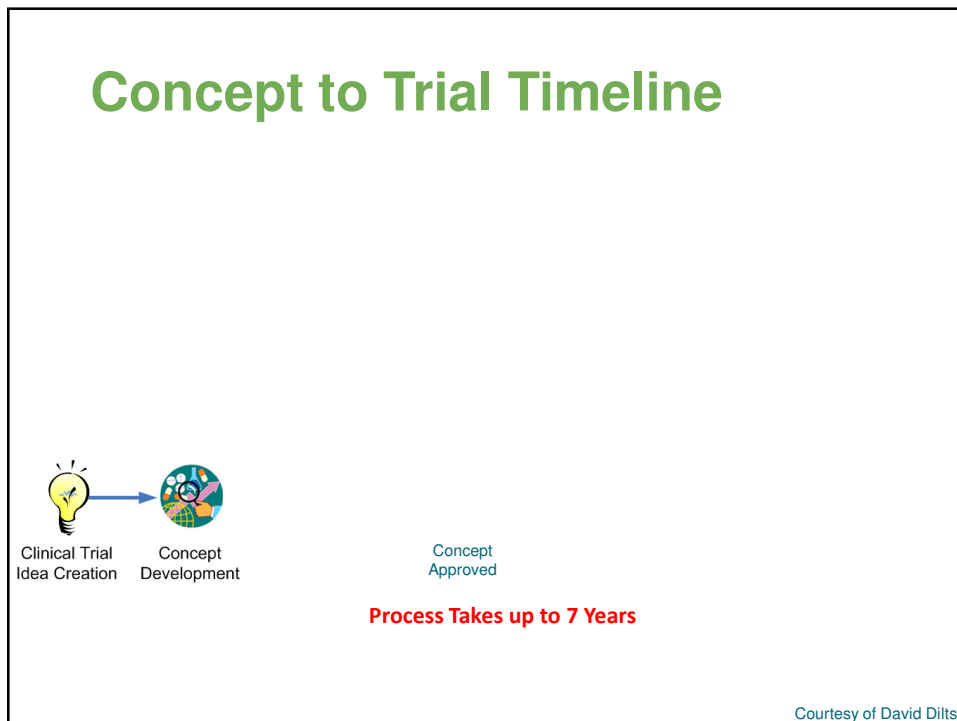
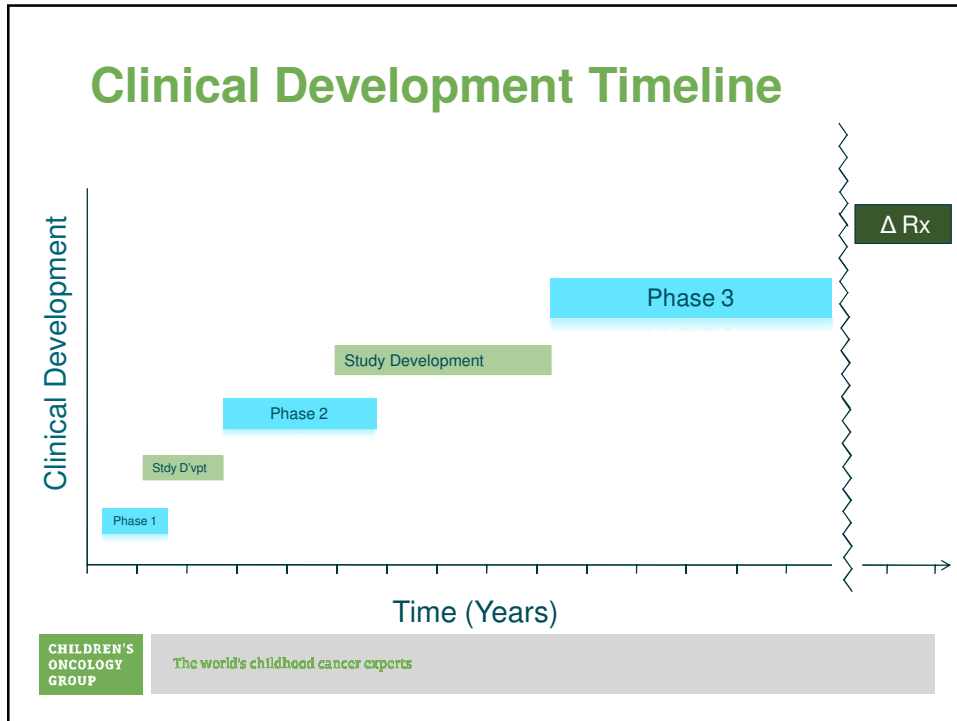


New Drug Development Timelines

Clinical Trials

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New Drug Development Timelines

Investigator Perspective

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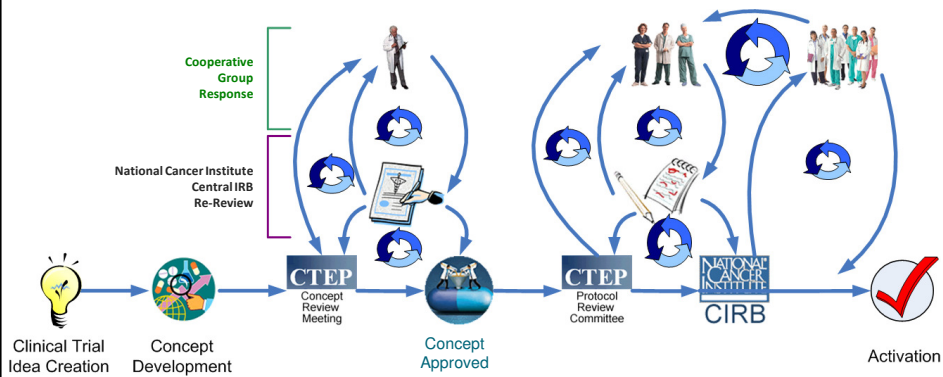
Concept Incubation



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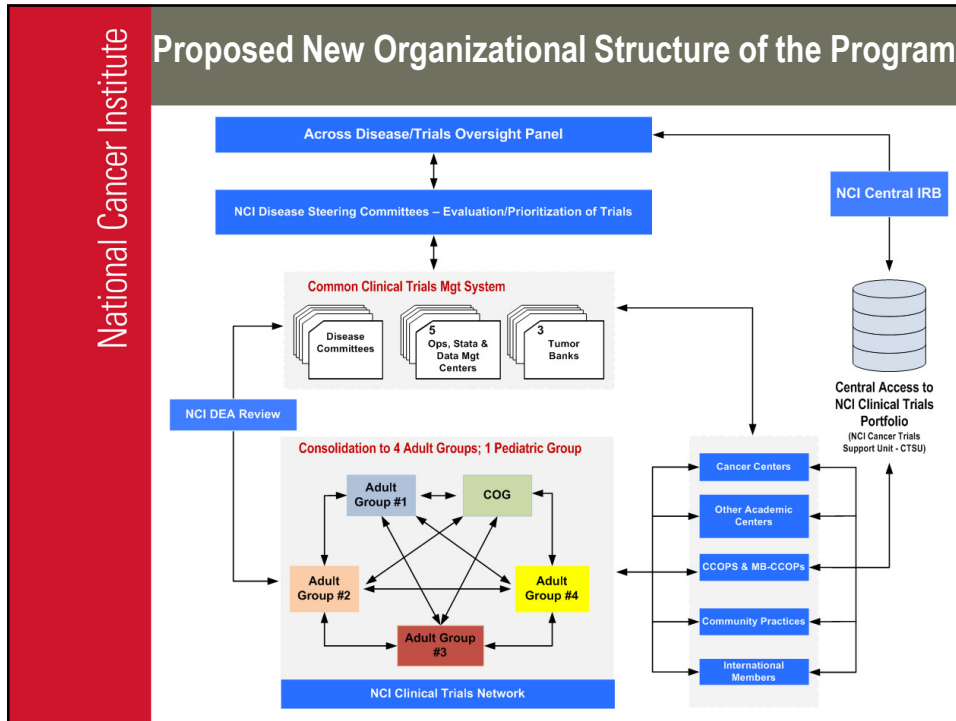
Concept to Trial Timeline



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Courtesy of David Dilts



Fail Early

Sept-Oct 1998

Nov 1998 – July 1999

Aug 1999 - Present

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**“I have not failed, I have just found
10,000 ways that won’t work”**

Thomas Edison

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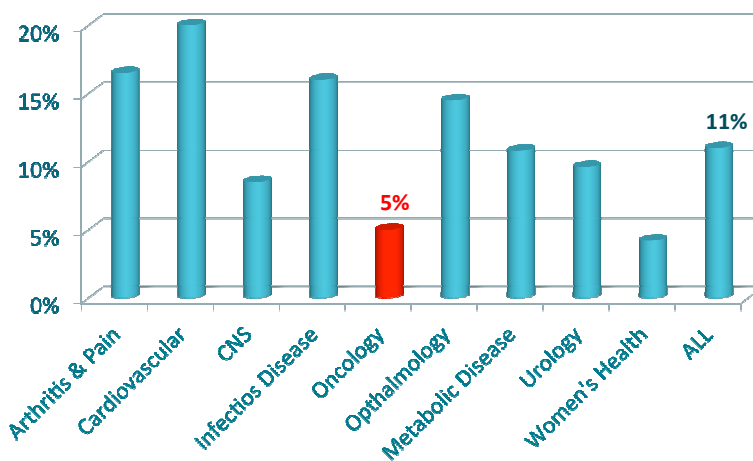
Cooperative Group Clinical Trials

- Efficient
- Effective

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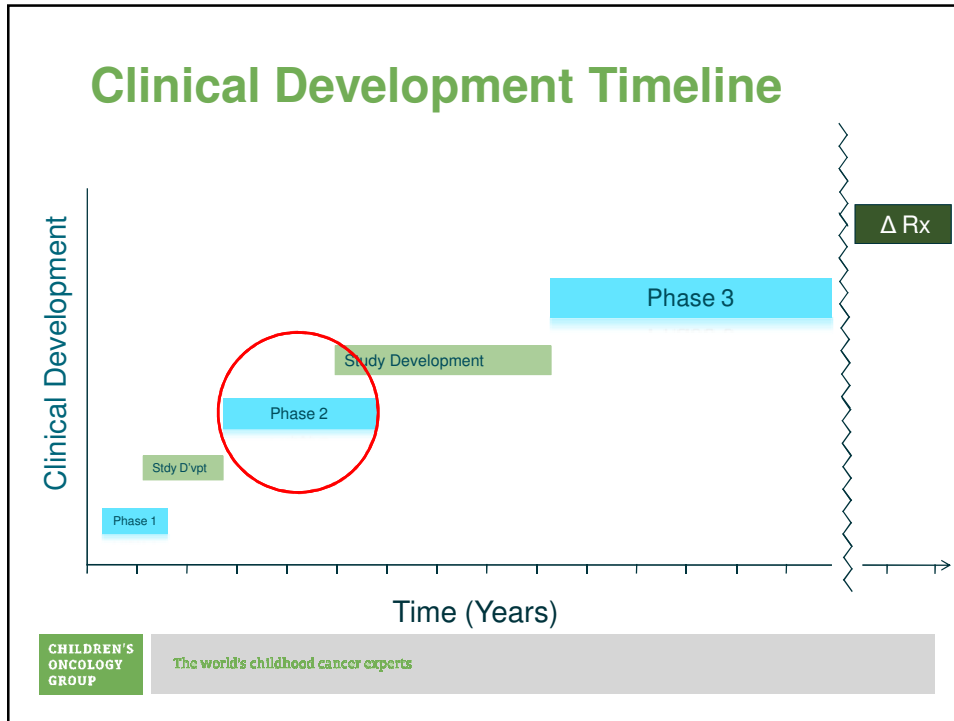
Success Rates for Drug Development



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JOURNAL OF CLINICAL ONCOLOGY ORIGINAL REPORT

Phase II Placebo-Controlled Randomized Discontinuation Trial of Sorafenib in Patients With Metastatic Renal Cell Carcinoma

Mark J. Ratain, Tim Eisen, Walter M. Stadler, Keith T. Flaherty, Stan B. Kaye, Gary L. Rosner, Martin Gore, Apurva A. Desai, Amita Patnaik, Henry Q. Xiong, Eric Rowinsky, James L. Abbruzzese, Chenghua Xia, Ronit Simantov, Brian Schwartz, and Peter J. O'Dwyer

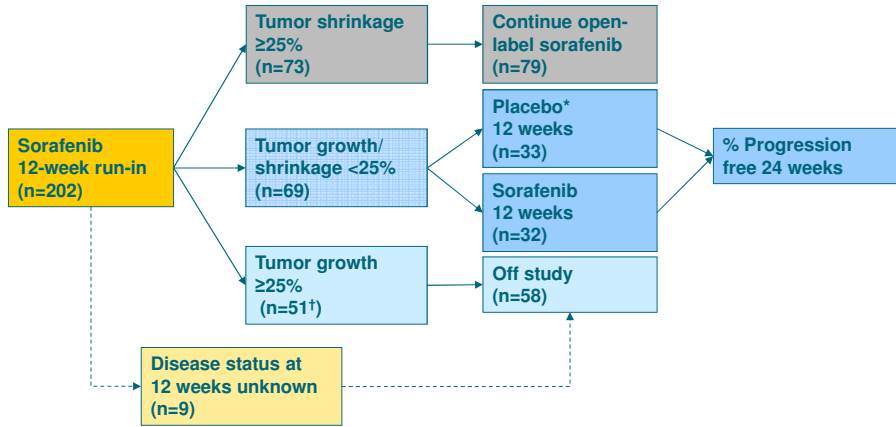
A B S T R A C T

Purpose
 This phase II randomized discontinuation trial evaluated the effects of sorafenib (BAY 43-9006), an oral multikinase inhibitor targeting the tumor and vasculature, on tumor growth in patients with metastatic renal cell carcinoma.

Patients and Methods
 Patients initially received oral sorafenib 400 mg twice daily during the initial run-in period. After 12 weeks, patients with changes in bidimensional tumor measurements that were less than 25% from baseline were randomly assigned to sorafenib or placebo for an additional 12 weeks; patients with $\geq 25\%$ tumor shrinkage continued open-label sorafenib; patients with $\geq 25\%$ tumor growth discontinued treatment. The primary end point was the percentage of randomly assigned patients remaining progression free at 24 weeks after the initiation of sorafenib.

Results
 Of 202 patients treated during the run-in period, 73 patients had tumor shrinkage of $\geq 25\%$. Sixty-five patients with stable disease at 12 weeks were randomly assigned to sorafenib (n = 32) or placebo (n = 33). At 24 weeks, 50% of the sorafenib-treated patients were progression free versus 18% of the placebo-treated patients (P = .0077). Median progression-free survival (PFS) from randomization was significantly longer with sorafenib (24 weeks) than placebo (6 weeks).

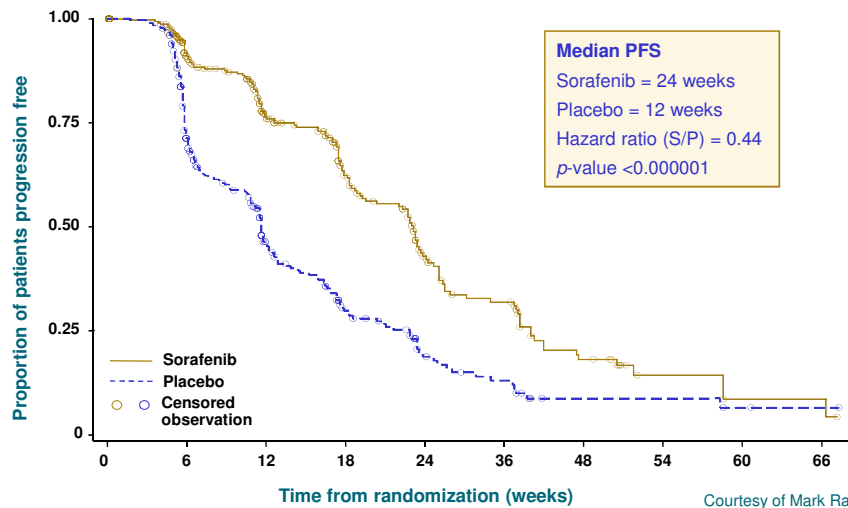
Study Design: Patient Flow



*Placebo patients who progressed could cross over to sorafenib
 †Including 36 patients without bidimensional tumor measurements, but with radiological evidence of progression

Courtesy of Mark Ratain, MD

Progression Free Survival: Randomized Patients



Courtesy of Mark Ratain, MD



Smart Drugs

Smart Trials

