# **Protocol Performance and Resource Utilization of Phase II Investigator-Initiated Trials** Henry Durivage, Pharm.D.<sup>1</sup>, Kerry Bridges, RN, MBA<sup>2</sup>, Janet Sauers, RN, BSN<sup>3</sup>, Lynn Baker, MBA<sup>4</sup>, Martha Wellons, RN<sup>5</sup>

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## Introduction

- Investigator-initiated trials (IITs) are the backbone of many cancer center clinical trial programs.
- Little is known about IIT performance metrics and associated resource use.
- We suspected many IITs are not being completed, many are taking a long time to complete enrollment, and significant resources are used to implement and manage these trials.
- We sought to verify these suspicions and to investigate possible early predictors of success.



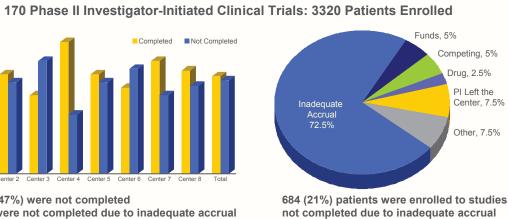
80 trials (47%) were not completed 58 trials were not completed due to inadequate accrual

### Methods

- Accrual data to phase I/II and phase II investigator-initiated therapeutic clinical trials.
- 5 cancer centers (2005-2008). Expanded to 8 centers (trials closed between 2005-2009).
- IITs were **completed** (accrual goal met, ineffective, stopped due to toxicity, etc.) or not completed (slow accrual, PI left, etc.)
- Other pre-specified criteria:
- Implementation time
- Progress at 3-month intervals
- Resource use parameters (amendments, continuing reviews, etc.)
- Multi-center participation

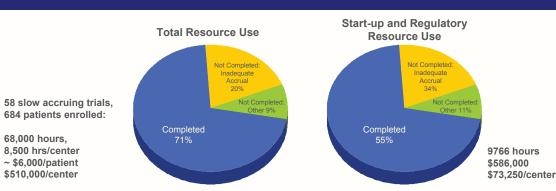
Data aggregated by PercipEnz Technologies, Inc.





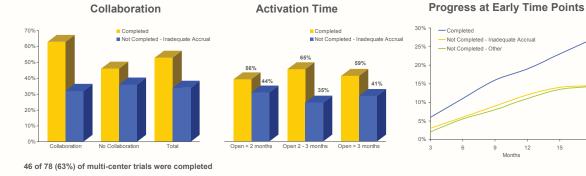
**Results:** Protocol Performance

## **Resource Utilization**



\*C-Change Guidance Document for Implementing Effective Cancer Clinical Trials, www.c-changetogether.org/pubs/default.asp

## Predictors of Study Completion



Funds, 5%

Competing, 5%

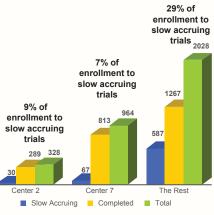
Drug, 2.5%

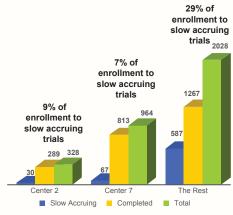
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Center, 7.5%

Other, 7.5%

All participating centers have enrollment criteria for continuation and closure of slow accruing investigator-initiated trials.





- completed.

- (median)
- not completed.
- a single institution.
- completed.



## **Study Closure Rules**

### Conclusions

• 47% of 170 therapeutic investigatorinitiated clinical trials were not

• 34% of the 170 clinical trials were not completed due to inadequate accrual.

 684 (21%) of 3320 patients participated in trials not completed due to inadequate accrual.

• Trials closed due to inadequate accrual remained open for 28 months

Significant resources are used on trials

 Multi-center trials were completed more often than trials conducted at

 Activation time was not predictive in identifying trials unlikely to be

· Progress at early time points may predict trial completion.