

Current Status and Lessons Learned From the Implementation of the SWOG Lung Master Protocol:

S1400  LUNG-MAP

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Outline

- Overview of Lung-MAP
- Round One
- Overview of changes
- Where are we now?
- Lessons learned

Overview of Lung-MAP

- Phase II/III Biomarker-Driven Master Protocol for Second Line Therapy of Squamous Cell Lung Cancer
- Public-private collaboration



Study Activated June 16, 2014

Lung-MAP: Round One

SI400 Screening:
FMI NGS/MET IHC

Non-match
(Anti-PD-L1)

PI3K
PIK3CA mut

CDK4/6
*CCND1, CCND2,
CCND3, cdk4 ampl*

FGFR
*FGFR ampl,
mut, fusion*

HGF
c-Met Expr

1:1

1:1

1:1

1:1

1:1

Arm¹ | Arm²

Arm¹ | Arm²

Arm¹ | Arm²

Arm¹ | Arm²

Arm¹ | Arm²

¹ MEDI4736
² Docetaxel

¹ GDC-0032
² Docetaxel

¹ Palbociclib
² Docetaxel

¹ AZD4547
² Docetaxel

¹ Rilotumumab
+ erlotinib
² Erlotinib

Study Design and Objectives

Design:

Independently conducted and analyzed parallel Phase II/III studies

Primary Objectives within each sub-study:

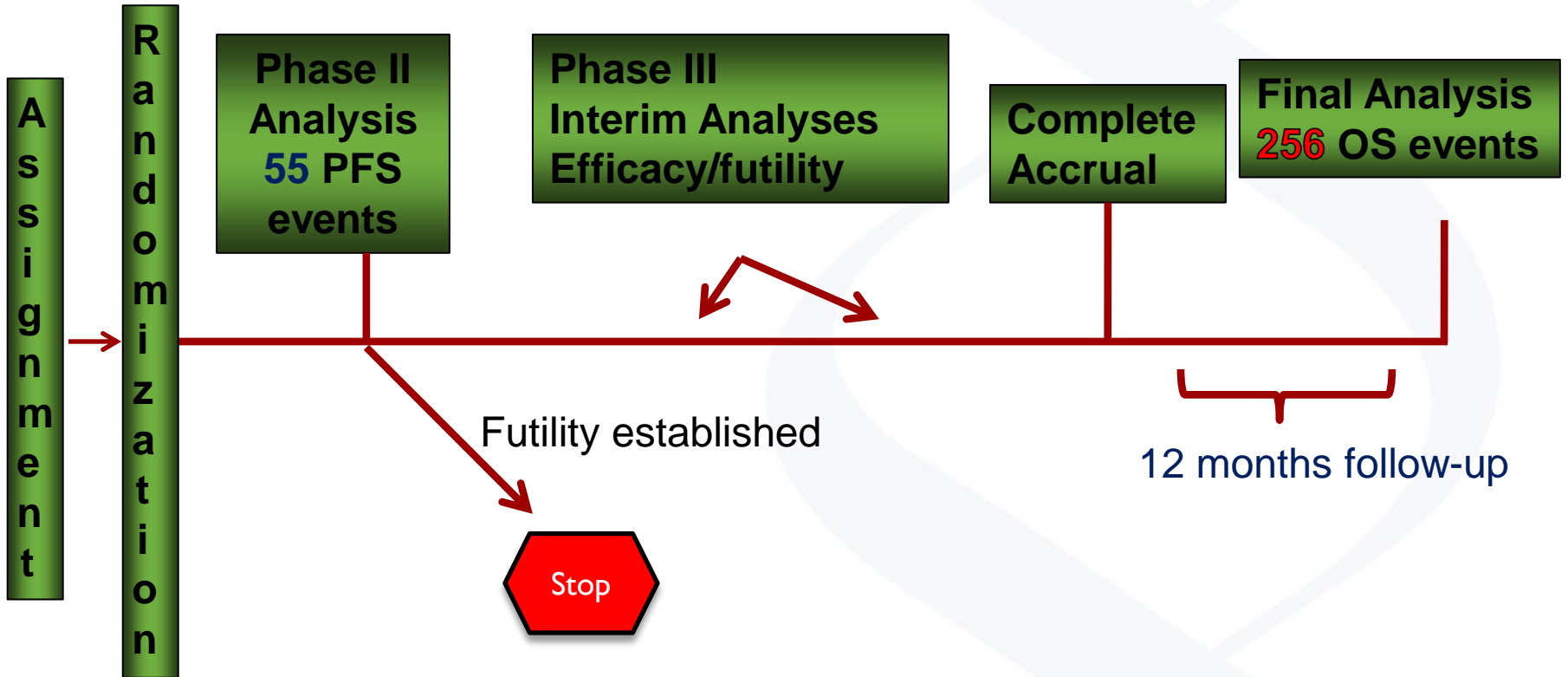
Phase II Component:

1. To evaluate if there is sufficient evidence to continue to the Phase III component by comparing progression-free survival (PFS) between patients randomized to experimental therapy versus SoC.

Phase III Component:

1. To determine if there is both a statistically and clinically-meaningful difference in PFS between the treatment arms.
2. To compare overall survival (OS) between treatment arms.

Study Design Within Each Sub-study



Some News...

Nov. 24, 2014

Amgen Announces Termination Of All Amgen-Sponsored Clinical Studies Of Rilotumumab In Advanced Gastric Cancer

THOUSAND OAKS, Calif., Nov. 24, 2014 /PRNewswire/ -- Amgen (NASDAQ:AMGN) today announced the termination of all Amgen-sponsored clinical studies of rilotumumab in advanced gastric cancer, including the Phase 3 RILOMET-1 and RILOMET-2 studies. Amgen's decision is based on a planned safety review by the RILOMET-1 independent data monitoring committee that found an increase in the number of deaths in the rilotumumab and chemotherapy treatment arm when compared to the chemotherapy treatment only arm. Protocol-defined futility criteria would likely have been met at the planned interim analysis, scheduled for March 2015. Detailed results of RILOMET-1 will be submitted for presentation and publication.

"While we are disappointed with these results, we will work with lead investigators to further analyze the

More News...



FDA Approves Opdivo (nivolumab) for the Treatment of Patients with Previously Treated Metastatic Squamous Non-Small Cell Lung Cancer

Opdivo is the first and only immuno-oncology therapy proven to extend survival in patients treated with one prior therapy

CheckMate -017 achieved the benchmark goal of improving overall survival in previously treated squamous non-small cell lung cancer (NSCLC)

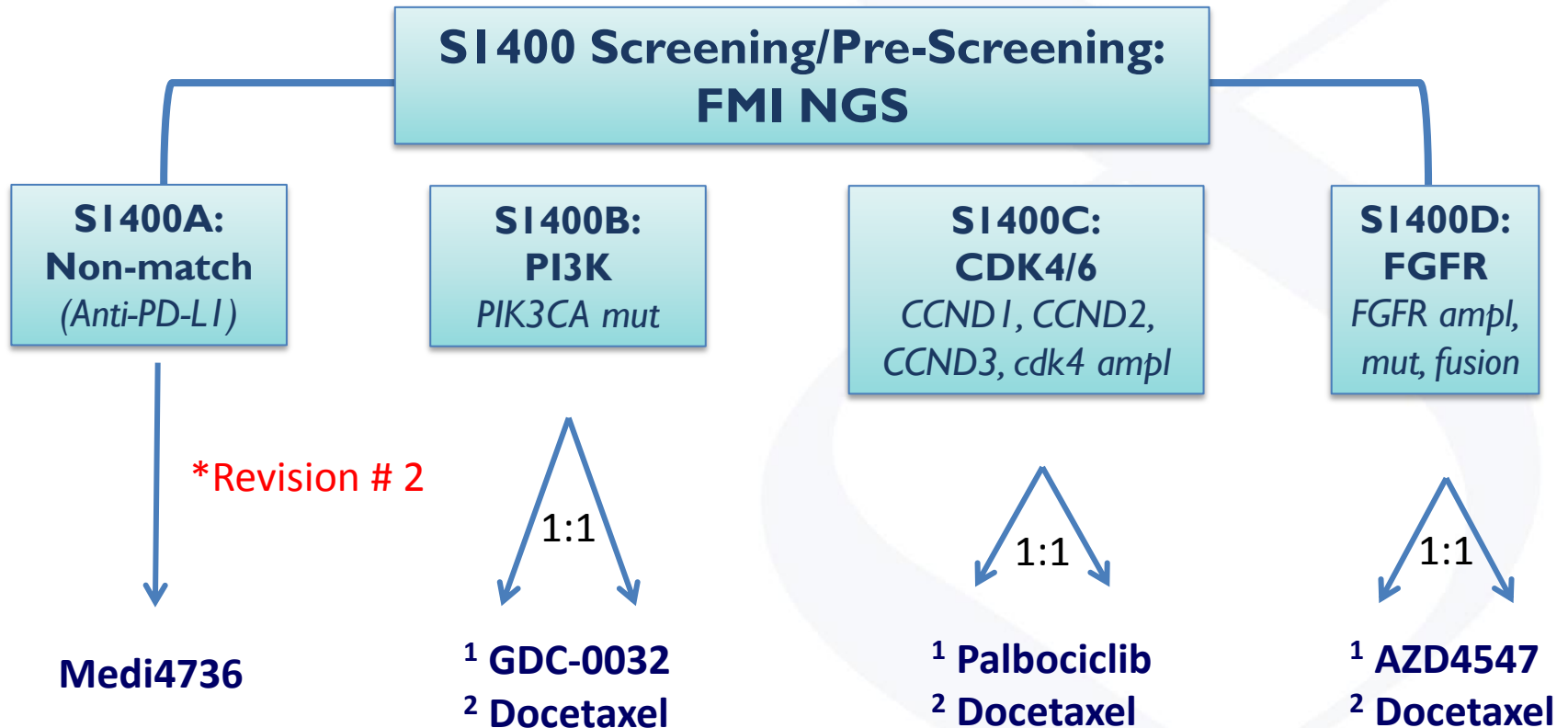
Wednesday, March 4, 2015 4:13 pm EST

PRINCETON, N.J.--(BUSINESS WIRE)--Bristol-Myers Squibb Company (NYSE:BMJ) today announced that the U.S. Food and Drug Administration (FDA) has approved *Opdivo* (nivolumab) injection, for intravenous use, for the treatment of patients with metastatic squamous non-small cell lung cancer (NSCLC) with progression on or after platinum-based chemotherapy. *Opdivo* is the first and only PD-1 (programmed death receptor-1) therapy to demonstrate overall survival in previously treated metastatic squamous NSCLC. *Opdivo* demonstrated significantly superior overall survival (OS) vs.

Overview of Changes

- Closure of S1400E (November 2014)
- Revision # 1 (January 2015)
 - Eligibility clarifications
 - Relaxation of timing from study assignment to registration
- Revision # 2 (Expected May 2015)
 - Allow 2nd and greater lines of therapy
 - Add in pre-screening during 1st line therapy
 - S1400A design modification to single arm

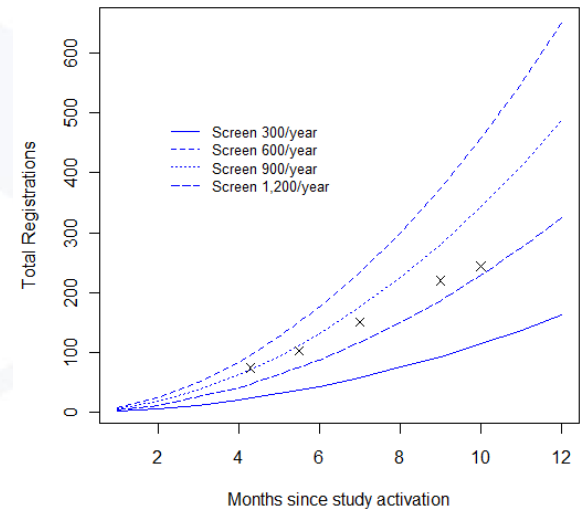
Updated Trial Schema



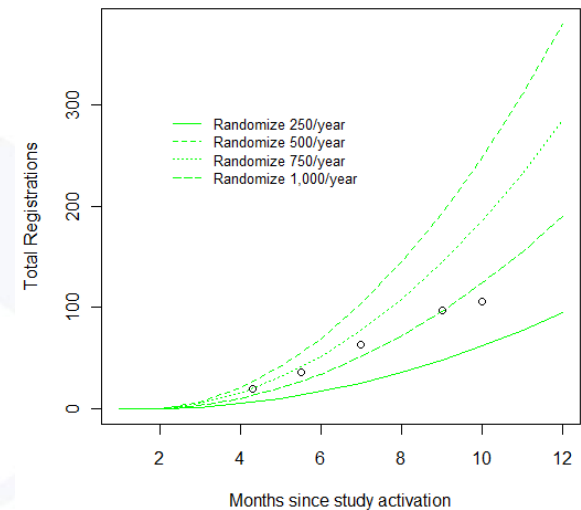
Accrual

Since June 16, 2014	N
SI 400	270
Sub-study Assignments	221
SI 400A (non-match)	73
SI 400B (PI3K)	9
SI 400C (CD4/6)	21
SI 400D (FGFR)	10
SI 400E (HGF/c-MET)	9
Total Sub-study accruals	122

Lung-MAP Screening Registrations and Projections



Lung-MAP Sub-study Registrations and Projections



Lessons Learned

- Adaptability
- Cooperation among partners
- Central Institutional Review Board (CIRB)
- Efficiencies gained are for the **patient**

