Remote Clinical Trials: The Genomics of Young Lung Cancer

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Agenda

I. Overviews: ALCMI & OMI
II. Lung Cancer Landscape
III. Remote Trial: Genomics of Young Lung Cancer
IV. Private/Public Partnerships
V. Q&A
Addario Lung Cancer Medical Institute

Goal = chronic, manageable disease by 2023

Unique:
✓ Contractual consortium
✓ Patient-centric research portfolio
✓ Centralized scientific planning, project management, bio/data banks

Partner with Bonnie J. Addario Lung Cancer Foundation
Addario Lung Cancer Medical Institute

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Lung Cancer Landscape

225,000

alive @5 yrs
17%

2nd

79%

Adv. Stage

alive @5 yrs
2%

1 in 3

Colon
Prostate
Breast
Lung

#P4C2014
Lung Cancer Landscape

- AdenoCA
- Squamous
- Small Cell
- Other

1984
13% K-ras
62% EGFR
20%
5%

2004
13% K-ras
62% EGFR
20%
5%

2013*
13% K-ras
62% EGFR
20%
5%

* Lung Cancer Mutation Consortium

#P4C2014
Genomics of Young Lung Cancer

Population tumor drivers, precision medicine

- Diagnosed <40 years old:
  - First to comprehensively map clinical genomics
  - 3-6k diagnosed annually = different approach

M+ = any of mutations: EGFR, KRAS, HER2, BRAF, or rearrangements: ROS1, ALK, RET; F1 = Foundation One; Heme = FoundationOne Heme
OpenMedNet - Connectivity
OpenMedNet
Implementing GoYLC

- Online recruitment
- Online consenting
- Remote sample handling
- Remote followup
- Site coordination

Coordinator

academic labs

USC Norris Comprehensive Cancer Center

GoYLC Biobank

OpenMedNet

https://www.openmednet.org/site/alcmi-goyl
Genomics of Young Lung Cancer

Prestudy
- Summit
- Study devel.
- Pre-Screening

Launch
- Remote sites
- Social media

Expansion
- Local Sites: US, UK, Italy
- Epidemiology

Science
GoYLC Participants and Sites (as of 10/30/14)

https://www.openmednet.org/site/alcmi-goyl
Private/Public Partnership
10 Year Strategy: Effective Interventions

Detection
- Screening/bio-monitoring
- Comprehensive profiling:
  - Diagnostic, prognostic, predictive

Innovative Trials
- Rational, profile-informed
- Patient engagement
- Remote trials, Big Data,...

Impactful Therapies
- Personalized care plans
- Combo “cocktails”:
  - Targeted/immuno/...
- Payors engaged

#P4C2014
One Stop Shopping
Innovating Cancer Research
Questions & Answers

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https://www.openmednet.org/site/alcmi-goyl