Active studies by Cooperative Group





Alliance Thoracic Group Co-Chairs: Linda Martin and Dennis Wigle



Disclosures – L Martin

Commercial Interest	Relationship(s)
Astra Zeneca	Advisory Board for Aduara Trial dissemination
Pacira Pharmaceuticals	Advisory Board
On Target Laboratories	Steering Committee for ELUCIDATE trial



Alliance Trials

- ALCHEMIST Dennis Wigle updates and new arm
- Varenicline Pre-Surgery CLOSED
- CHIO3 (AFT 46)
 - What's next concepts for Phase 3 study
- In Development:
 - AFT 51 Intraoperative Molecular Imaging for Metastatic Disease
 - C-PROTECT Adjuvant Colchicine for Stage 1A-1B NSCLC
 - Phase3 trial for stage 3A/B lung cancer



Alliance Foundation Trial-46 CHIO3 Trial: CHemotherapy Combined with Immune Checkpoint Inhibitor for Operable Stage **3**A/B Non-Small Cell Lung Cancer

Linda W Martin, MD, MPH - Thoracic Surgery, University of Virginia Jyoti Patel, MD - Medical Oncology, University of Chicago James Urbanic, MD - Radiation Oncology, UC San Diego

AFT 46 Phase II Single Arm Trial

CHIO 3: Chemotherapy Combined with Immune Checkpoint Inhibitor for Operable Stage III NSCLC









AJCC 8th edition: CHEST 2017; 151(1):193-203



- Lobectomy or greater
- Mediastinal Lymph Node Dissection
- Per Operative Standards for Cancer Surgery "rules"



Adjuvant radiation – "PORT" criteria

- OPTIONAL per treating team
- Positive margins must get it
- Use treatment planning guidelines from Lung ART trial



Endpoints

Primary:

 To increase N2 nodal clearance rate from 30% (with platinum doublet alone as induction therapy) to 50% (with combined platinum doublet with durvalumab) in patients with potentially resectable stage IIIA (N2) NSCLC

Secondary:

 To assess the radiographic response rate of the combination of chemotherapy and durvalumab in patients with potentially resectable stage III (N2) NSCLC



Progress

- LOI submitted April 2017
- Final proposal submitted 7/31/18, revisions reviewed 10/30/18
- Approved by Alliance Foundation and Astra Zeneca Dec 2018
- Alliance Foundation Trial, using the Alliance trial mechanism and resources
- CIRB approval underway Feb 2020
- Covid.... Contracts... Delays...
- First patient in this month, opening at 16 sites



Trials in Development



Phase 3 follow up to AFT 46 – *OPERABLE* stage III



Chemoradiation

Arm A: investigational (AFT 46)



AFT 51 Linda Martin, MD and Sunil Singhal, MD



Pulmonary Metastasectomy

SURGEONS GOAL: COMPLETE DISEASE CLEARANCE Problem Identification of all disease

Hypothesis

Near infrared imaging can improve detection of metastases missed by (a) preoperative CT imaging (b) intraoperative inspection

NIR Imaging—TumorGlow® ICG GIVEN SYSTEMICALLY (NOT INTRATUMORAL)



NIR Imaging—TumorGlow®

Imaging 24h later



Clinical Trial

Example 1 32M, femur osteosarcoma, RLL mets (known) NIR Imaging



Additional lesion? (right middle lobe)



Future Directions

WELCOME A MULTI-INSTITUTIONAL CLINICAL TRIAL sunil.singhal@uphs.upenn.edu (Sunil Singhal) Im6yb@virginia.edu (Linda Martin)

- AFT 51 in development
- 120 patients, 10-15 sites **QUESTIONS TO ANSWER:**
- Is this reproducible nationwide?
- Are particular histologies better at imaging?
- Ex vivo margin assessment (growing importance)?



Predina et al, JTO, 2018

I-PROTECT Linda Martin, MD David Kozono, MD Thomas Stinchcombe, MD Paul Ridker, MD



New Study Concept

For Early Stage Lung Cancer Stage IA-IB ≤ 4 cm node negative

insight review articles

Inflammation and cancer

Lisa M. Coussens*†§ & Zena Werb‡§

*Cancer Research Institute, Departments of †Pathology and ‡Anatomy, and the §UCSF Comprehensive Cancer Center, University of California, San Francisco, California 94143 USA (e-mail: coussens@cc.ucsf.edu; zena@itsa.ucsf.edu) "Inflammation is a critical component of tumour progression (and) it is now becoming clear that the tumour microenvironment, which is largely orchestrated by inflammatory cells, is an indispensable participant in the neoplastic process, fostering proliferation, survival, and migration".



Wound Healing

Invasive Tumor Growth

Canakinumab Anti-inflammatory Thrombosis Outcomes Study (CANTOS)



Additional Adjudicated Endpoints: Cancer, Infection

CANTOS: Additional Non-Cardiovascular Clinical Benefits



Ridker et al Lancet. 2017;390:1833-1842

CANTOS: Additional Non-Cardiovascular Clinical Benefits Fatal Lung Cancer



Ridker et al Lancet. 2017;390:1833-1842

Can blockade of IL-1β prevent lung cancer recurrence? Or prevent second primary lung cancers?

C-PROTECT: <u>C</u>olchicine to <u>Prevent</u> <u>Recurrences Of Treated Early Cancers of the Thorax</u>



Decisions to make

- This would be a SURGEON, RAD-ONC run protocol
- Could enroll every stage 1 resection
- Need about 1000 patients
- Duration of drug therapy 5 years?