

Regulatory and Policy Considerations for Public-Private Partnerships for Clinical Cancer Research

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CONFLICT OF INTEREST

Principal and Chief Medical Officer: Beat AML, a Limited Liability Corporation of The Leukemia and Lymphoma Society (unpaid)

Consultant (unpaid): AbbVie, Allogene, Newave, Orange Grove Bio, and Kartos

Research Funding: AstraZeneca, Newave, NIH

Scientific Advisory Board: Vincerx (Chair), Newave (Chair), Orange Grove Bio (Chair), Kurome (member), and Kartos (member)

Equity holder in publicly traded company: Vincerx Pharma

Equity holder in private company: Eilean Therapeutics, Kurome

WHAT IS BEAT AML?

- LLS convened partners (2016) with a goal of identifying more efficacious and tolerated therapies based upon lack of success despite more than 1/3 of research budget going to this

- Academic institutions
- Pharmaceutical Companies
- Regulatory agencies (FDA)
- Genomic testing
- CRO and trial vendors



Patient focused

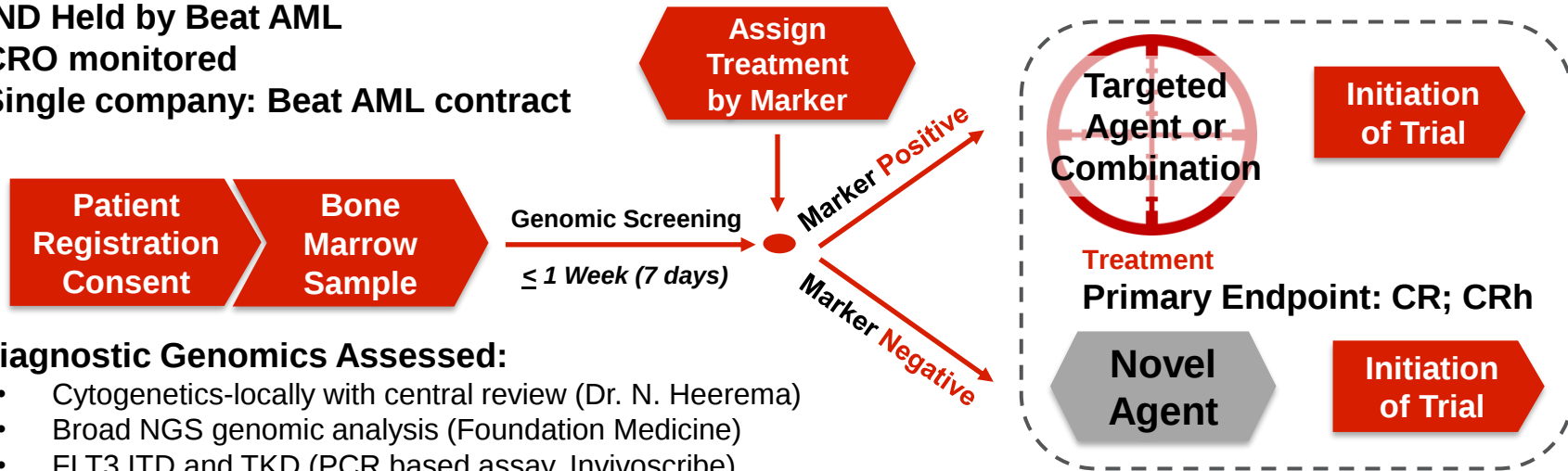
- Platform study that assigns therapy based upon cytogenetic and genomic features
- Central rules: Can't care about individual credit and stay nimble

BEAT AML Initial Study Composition and Design

IND Held by Beat AML

CRO monitored

Single company: Beat AML contract



Diagnostic Genomics Assessed:

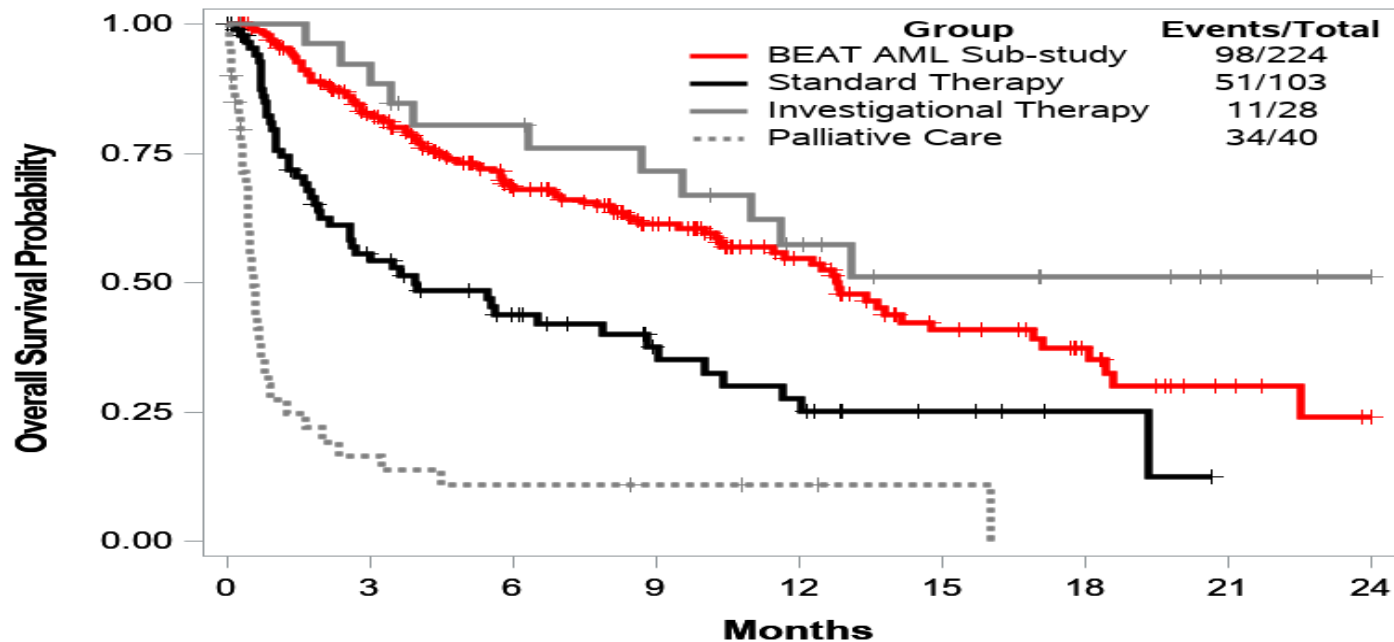
- Cytogenetics-locally with central review (Dr. N. Heerema)
- Broad NGS genomic analysis (Foundation Medicine)
- FLT3 ITD and TKD (PCR based assay, Invivoscribe)

Therapy assigned centrally

Up to 9 study arms open for specific genomic groups

BEAT AML OUTCOMES : OVERALL SURVIVAL¹

Sub-study treatment compared to not treated on study



Current enrollment more than 1,400 pts



BEAT AML OUTCOMES

Contributed (along with CTEP investigators) to paving way for MyeloMATCH initiative by NCI

Ability to terminate studies early based on futility metrics

- Avoid large Phase 3 studies that likely will not meet endpoint

Provide guidance for NCCN guidelines

- Enasidenib for newly diagnosed patients with IDH2 mutations (AML treatment without hospitalization)

Data utilized to change clinical practice

- 16 ASH abstracts, 1 ASCO abstract, 1 EHA abstract
- 10+ peer reviewed publications



BEAT AML EVOLUTION

Necessitated by several things moving forward in field

- SARS-COV-2 Pandemic
- MyeloMATCH (NCI effort to disseminate our approach to community)
- Changing landscape of treatment (venetoclax + azacitidine approval)

New areas of focus (Trials)

- Beat AML study, Opti-AML, comparing 28 or 14 days venetoclax + azacitidine to maintain efficacy and improve safety/tolerability (pivot)
- Broad targeted agents + ven/aza to move to MyeloMATCH (phase 2)
- Select targeted therapy + ven/aza in select genomic groups (phase 1) to move to MyeloMATCH-Syndax Pharma
- Relapsed and refractory studies focused on ven/aza resistant disease

Application of new technologies and use of acquired samples



BEAT AML PEARLS AND OPPORTUNITIES

Pearls

- Not for profit can successfully run disease specific platform studies in rare disease
- Staying nimble at top (rapid decisions) and requirement to not care about credit enabled our success

Opportunities

- Improved venue options to refine dosing of approved regimens (i.e. Opti-AML, ven/aza) to assure they are usable in community
 - Consider empowering FDA to mandate this to companies or funding mechanism to perform
- Improve paths to encourage companies to file secondary NDA indications when data support
- All points made by Dr. Doroshow relative to contracting, etc.