

## Phase II Study of Clofarabine for Older Patients with Treatment-Naïve AML

### Presentations discussed in this issue:

Erba HP et al. **Phase II study of single agent clofarabine in previously untreated older adult patients with acute myelogenous leukemia (AML) unlikely to benefit from standard induction chemotherapy.** *Blood* 2008;112:558. [Abstract](#)

Kantarjian M et al. **Classic II: Updated remission duration and survival results of single agent clofarabine in previously untreated older adult patients with acute myelogenous leukemia and at least one unfavorable baseline prognostic factor.** *Haematologica* 2009;94;[Abstract 0835](#).

### Slides from presentations at ASH 2008

## A Phase II Study of Single Agent Clofarabine in Previously Untreated Older Adult Patients with Acute Myelogenous Leukemia (AML) for Whom Standard Induction Chemotherapy is Unlikely to be of Benefit: CLO24300606/CLASSIC II

**Erba HP et al.**

*Blood* 2008;112: Abstract 558

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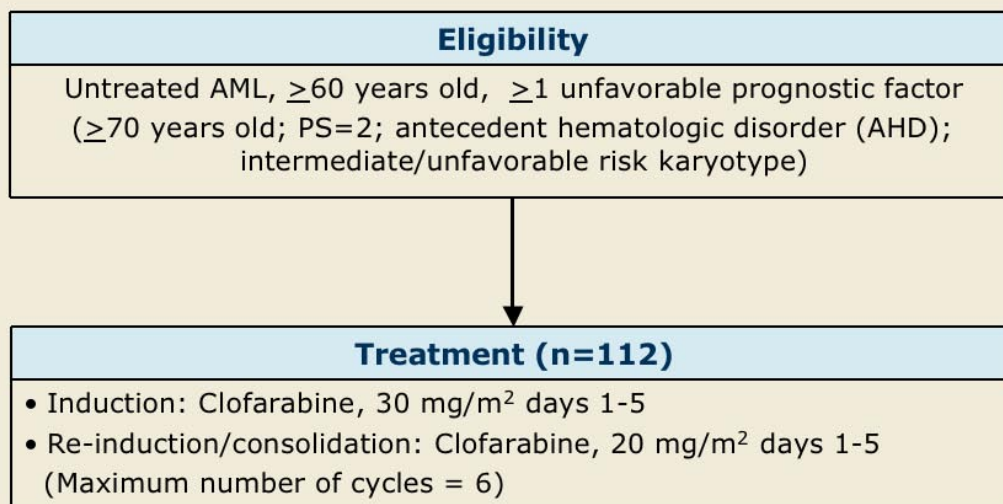
# Introduction

- Older patients with AML have inferior treatment outcomes due to increased incidence of patient- and disease-related adverse risk factors:
  - High treatment-related mortality rate
  - Lower CR rates and short remission duration
  - Inadequate outcomes with cytarabine and anthracycline induction therapy for patients with unfavorable prognostic risk factors
- **Current study objectives:**
  - Primary: Determine the overall remission rate (ORR) with clofarabine in patients  $\geq 60$  years old with untreated AML and  $\geq 1$  adverse prognostic factor
  - Secondary: 30-day mortality; disease-free survival (DFS); remission duration; overall survival (OS); safety and tolerability

Source: Erba HP et al. *Blood* 2008;112: Abstract 558

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## Phase II Study of Clofarabine in Older Patients with AML



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## Results: Response by Independent Review Panel (IRRP) (n=112)

Response	N	Response Rate, % (95% CI)
ORR	51	46% (36, 55)
Complete remission (CR)	42	38% (29, 47)
Complete remission with incomplete platelet recovery (CRp)	9	8% (Not reported)
Partial remission	4	4% (Not reported)
Remissions (CR + CRp) after cycle 1 (induction)	38	8% (Not reported)
Remissions (CR + CRp) after cycle 2 (re-induction)	13	25% (Not reported)

Median time to ORR = 5.1 weeks

Median time to peripheral blood blast clearance: 5 days

Median duration of response for CR/CRp = 56 weeks\*

Source: Erba HP et al. *Blood* 2008;112: Abstract 558

\*Updated results, Kantarjian M et al. *Haematologica* 2009;94[S2];336. Abstract 0835

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## Results: Survival

Survival	
Median DFS (CR/CRp)	37 weeks
Median OS	
All patients (n=112)	41 weeks
Patients with CR/CRp	59 weeks
Patients with CR	72 weeks
30-day mortality	
All patients (n=112)	9.8%
Patients < 70 years old	4.7%
Patients ≥ 70 years old	13.0%

Source: Kantarjian M et al. *Haematologica* 2009;94[S2];336. Abstract 0835

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## Drug-Related Adverse Events in $\geq 10\%$ of Patients

Adverse Event	Number of Patients		
	All Grades	Grade 3	Grade 4/5
Nausea	69	4	0
Febrile neutropenia	49	46	2
Vomiting	43	0	0
Diarrhea	38	3	0
Rash	34	2	0
Fatigue	20	3	0
Pneumonia	17	9	5
Anorexia	15	3	0
Mucosal inflammation	13	3	0

Source: Erba HP et al. *Blood* 2008;112: Abstract 558

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## Conclusions

- Single-agent clofarabine is an active agent with acceptable toxicity in a well-defined population of older patients with AML who do not typically benefit from standard induction chemotherapy
  - The response rate was not affected by adverse risk factors such as age  $\geq 70$  years, PS 2, AHD and unfavorable blast karyotype
  - DFS and OS compare favorably to historical experience with other regimens
    - Median DFS = 37 weeks; median OS = 41 weeks; all-cause 30-day mortality = 9.8%\*
  - Complete remissions appear to be durable (median DOR = 56 weeks)
- A Phase III study of clofarabine with cytarabine versus cytarabine alone is currently open for enrollment: NCT00317642, CLASSIC I

Source: Erba HP et al. *Blood* 2008;112: Abstract 558

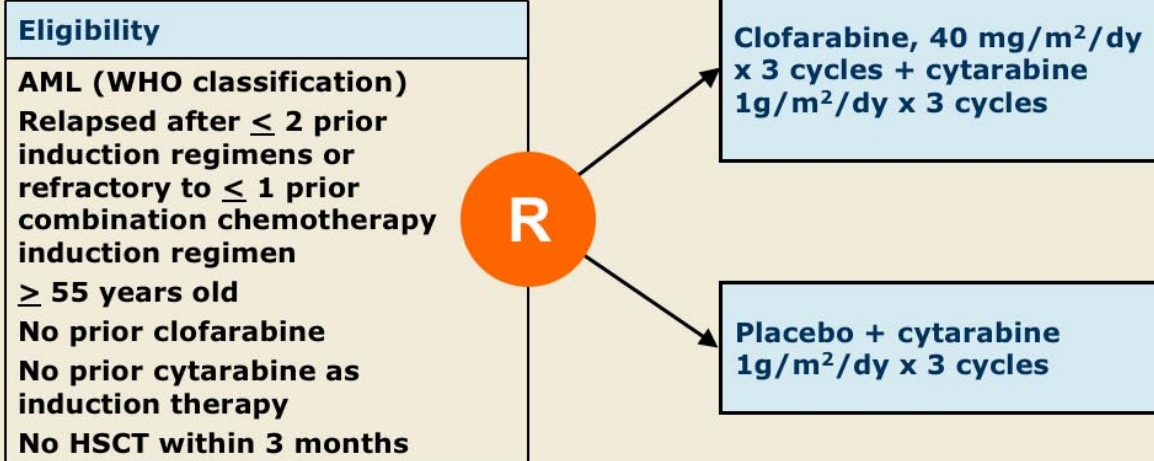
\*Updated results, Kantarjian M et al. *Haematologica* 2009;94[S2];336. Abstract 0835

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# CLASSIC I: Clofarabine and Cytarabine Versus Cytarabine for Relapsed/Refractory AML

Protocol ID: CLO34100405; NCT00317642

Estimated Accrual = 376



Source: NCI Physician Data Query; Clinicaltrials.gov, November 2009

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