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Cyclacel Highlights



Sapacitabine in front-line AML in the elderly: SEAMLESS Phase 3

- Oral agent for elderly AML patients; minimal options today
- Interim analysis for futility expected late 2014/early 2015
- Complete enrollment 2014/15; top-line data 2H15

Sapacitabine in high-risk MDS after HMA failure

- "Impressive" Phase 2 survival data in 2nd/3rd Line MDS
- Phase 2b RCT planned to start in 2015

Strong financial position & earlier-stage pipeline

- Sufficient capital beyond SEAMLESS Phase 3 data readout
- Sapacitabine in solid tumors; CDK and PLK inhibitors







Sapacitabine for AML





AML Unmet Medical Need since 1969*



- Young AML patients: induction chemotherapy cocktail, then transplant
- Most elderly cannot tolerate Intensive chemo; need less intensive therapies
- Drug development goal: overall survival (OS) not necessarily remission (CR)

Treatment	Fit for Intensive Chemo (20%)	Unfit/Refused Intensive Chemo (80%)
Front line	7 + 3	Sapacitabine Clinical trial
Relapsed/ Refractory	Clinical trial	Clinical trial

^{*} **AML is an older/elderly disease: 50%** ≥ **70 yrs.**; median age: ~ 67. Source: American Cancer Society and Cyclacel-commissioned primary market research. Sapacitabine data on file.





Predicament of 70+ year old AML Patient



- Newly diagnosed AML: multigenetic, heterogeneous disease
- Old age, frailty and comorbid conditions

Options:

- 45-year old intensive chemotherapy regimen
- Investigational agent(s) in a clinical trial
- Hospice or terminal care at home
- Expected median survival of 3 6 months
- Mortality in first 2 months of ~ 20 36%





Elderly AML Benchmark Data



Most elderly patients unable to sustain intensive chemotherapy Treatment mortality \uparrow and survival \downarrow with age over 60 years

death rate	8-week death rate	m OS
26%	36%	~ 5 months*
9%	20%	~ 5 - 8 months ^{† ‡}
17%	N/A	~ 4 months [◊]
4%	13%	~ 8 months [@]
	26% 9% 17%	26% 36% 9% 20% 17% N/A

^{*} Kantarjian, et al, Blood, 2010. † Burnett, et al, Cancer, 200. Kantarjian, et al, Blood, 2012. † Harousseau, et al, Blood 2009. † Kantarjian, et al, JCO, 2012. © Ravandi F, et al, American Society of Hematology Annual Meeting Dec. 2012, Abstract #2630.





Rationale for Sapacitabine in AML



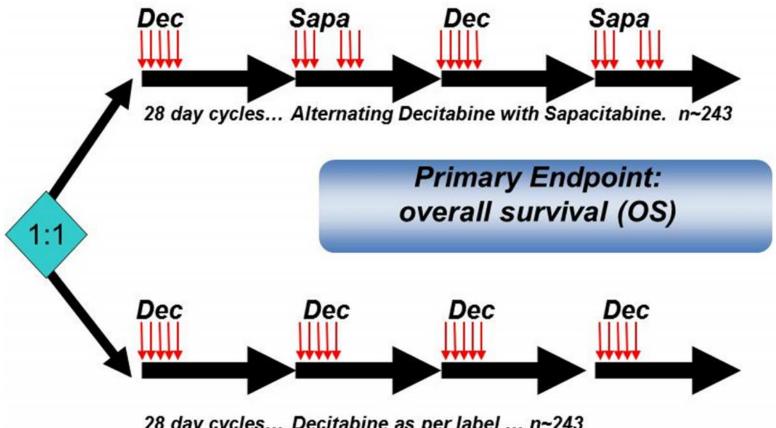
- Elderly AML patients are very frail
- How to control leukemia cell growth but not worsen the patient's immunity & quality of life?
- Sapacitabine-based Phase 3 "low-intensity" regimen balances those needs, resulting in ~ half the 60-day mortality vs. that reported with control regimen
- Hypothesis tested in SEAMLESS Phase 3 study under SPA:
 - Can the use of a sapacitabine-based less-intensive treatment regimen 个 OS vs. active control





"SEAMLESS" Phase 3 Design

(Untreated AML: front line; \geq 70 years; n=485; p=0.05; HR=0.725)



28 day cycles... Decitabine as per label ... n~243

- In consultation with FDA under SPA enrolling at U.S. and European centers
- DSMB every 100 patients (n=119; n=212:"no safety or efficacy concerns")
- Interim analysis for futility after 212 events (50% of required events)





SEAMLESS Milestones



DSMB review at ~ 300 patients: 2H14

Interim analysis for futility: Late 2014/Early 2015

• Enrollment > 70%; completion: Late '14/Early '15

Top-line data: 2H15





Will SEAMLESS Phase 3 Succeed?

Required reduction in risk of death: 27.5%



Median Overall Survival (OS):

Decitabine (DACO-016, > 75 years, n=95): ~ 6 mos. †

Sapacitabine/ Decitabine (ASH '12, > 75y, n=33): ~ 9 mos. *

60-day mortality:

Decitabine (DACO-016, > 65y, n=242): 20% †

Sapacitabine/ Decitabine (ASH '12, > 70y, n=46) 13% *

Complete enrollment around end of 2014

[†] Caveat: cross-study comparison. Kantarjian, et al, JCO, 2012.



^{*} Interim data from pilot, lead-in study of Arm A in SEAMLESS; subject to change. ASH 2012, Abs. 2630; 76% > 75 years.



NDA Enabling Activities



- External consultant review of available NDA content
- Planning a potential "rolling NDA" submission
 - Biopharm section
 - CMC section
 - Clinical section would be last to be submitted
- Core dossier also to be used for MAA submission in EU







Sapacitabine for MDS





MDS Unmet Medical Need



Treatment	Low Risk	High Risk
1 st line	lenalidomide #	azacitidine# decitabine
2 nd line	Clinical trial	Sapacitabine Clinical trial

...NCCN guidelines for 1st line hypomethylating agents: 4-6 cycles ...‡

Median OS int-2/high-risk MDS after **treatment failure** of HM agents: **4.3-5.6 months**†

Revlimid®, Celgene. Vidaza®, Celgene. & Dacogen®, Otsuka. Dacogen & Vidaza are hypomethylating (HM) agents. ‡ NCCN Guidelines MDS v.2.2011 p. 19. † Prebet T, Gore S, et al, JCO 2011; Jabbour E, Garcia-Manero G, et al, Cancer 2010.





Predicament of 60+ year old High-Risk MDS Patient

High risk MDS after failure of front-line drugs



- Already failed 1st line hypomethylating agents (HMAs): azacitidine (Vidaza®) and/or decitabine (Dacogen®)
- Higher risk from infections; transformation into AML
- Multigenetic, heterogeneous disease

Options:

- Investigational agent(s) in a clinical trial
- Hospice or terminal care at home
- Expected median survival of 4.3 5.6 months †

† Source: Prebet T, Gore S, et al, JCO 2011; Jabbour E, Garcia-Manero G, et al, Cancer 2010.





Sapacitabine Phase 2 MDS Design: 682-06, Part 4

High-risk MDS: 2^{nd} , 3^{rd} or 4^{th} line; \geq 60 years; n=63; all arms 28-day cycles



- ✓ Intermed-2 or hi-risk IPSS after HMA failure; blasts 6% -19%
- ✓ Primary Endpoint: 1-year survival



H. Sapacitabine 300mg qd x 7d (n=21)

I. Sapacitabine 100mg qd x 5d x 2w (n=21)



Source: Garcia-Manero et al, J. Clin. Oncol. 2012:30:Abs. 6520. HMA = hypomethylating agents.



MDS HMA Failures: Key Benchmarks

MDS int-2 & high-risk IPSS experimental Standard of Care after frontline failure



Treatment	m OS	1 year survival	
Azacitidine 2 nd line	~ 6 months †	_ †	
Decitabine 2 nd line	~ 4 months †	_ +	
Best Supportive Care	~ 4 months †	17% †	
Sapacitabine:			

Phase 2 study 2nd, 3rd, 4th line



† Prebet T, Gore S, et al, JCO 2011 (95% Cl, 14% to 26% on best supportive care; 29% on investigational agents). @ Garcia-Manero G et al, American Society of Hematology Annual Meeting Dec. 2013, Abstract #2752 (Arm G 1-year survival).





Sapacitabine Phase 2 MDS Data

(High Risk MDS: 2nd, 3rd or 4th line; aged ≥ 60 years; n=63) *



	Total (63)	Arm G (21)	Arm H (21)	Arm I (21)
Prior Azacitidine	30	9	10	11
Prior Decitabine	15	4	3	8
Prior Aza + Decitabine	18	8	8	2
Median OS (days)	260	291	290	227
≥ 10% blasts in b.m.	291	266	307	153
60-day deaths	8	3	2	3
Responders	32	11	11	10

^{*} Garcia-Manero G et al, American Society of Hematology Annual Meeting Dec. 2013, Abstract #2752. Response = CR/CRp, major HI, stable disease over 16 weeks.





Sapacitabine MDS Phase 2b RCT



Study Objectives

- Prolong overall survival
- Convenient outpatient treatment

Active control options

- 1. Low dose cytarabine (LoDAC)
 - Differentiated mechanism
 - Outpatient convenience
 - Activity in 1st line setting *
- 2. Other HMA
 - Patients failed/progressed 1st line HMA
 - IV administration
 - HMA cross-treatment data inconclusive

^{*} Zwierzina H et al, Leukemia, 2005.





Rationale for Randomized Phase 2b RCT

- Limited knowledge
- Genetic heterogeneity & treatment complexity
- Sapacitabine Phase 2 clinical data encouraging
- Cyclacel approach
 - Review recent MDS trials
 - Confer with MDS KOLs
 - Conduct feasibility assessment
- Goal: determine path that may
 - Add to understanding of sapacitabine's role in the indication
 - If RCT data exceptional, discuss with regulators





Phase 2b MDS RCT Design

(int-2 or high risk MDS after HMA failure: aged ≥ 60 years; n~250)



A. Alternating sapacitabine & LoDAC (n~125)

Primary Endpoint: overall survival (OS)

B. LoDAC* (n~125)

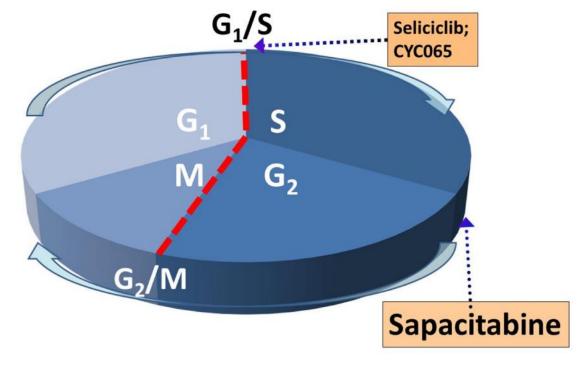
- Feasibility in over 100 US & EU sites
- ✓ Est. enrollment ~15 months , excl. lead-in stage
- ✓ Interim safety reviews at 100 & 200 patients



^{*} LoDAC=low-dose cytarabine.



Sapacitabine Overview



Interferes with cancer cell repair via HR pathway

Therapeutic strategy: QOL maintenance vs. toxic cure attempt

- Oral administration; well-tolerated; administered over multiple cycles
 Significant market opportunity beyond AML and MDS
 - Solid tumor activity in HR-deficient patients incl. gBRCA +ve

Exclusivity: IP to 2027-30; Orphan Drug Status for AML & MDS





Cyclacel Early-stage Pipeline



Candidate	MOA	Use	Pre- clinical	Phase 1	Phase 2	Phase 3
Sapacitabine + seliciclib	DNA synthesis inhibitor + CDK2,7,9 inhibitor	HR repair- deficient solid tumors		-		
CYC065	CDK2,5,9 inhibitor	Blood & solid tumors*				
CYC140	PLK1 inhibitor	Blood & solid tumors*				

^{*}Both mainly funded by government grants.





Financial Position & Capitalization



Cash runway beyond SEAMLESS Phase 3 data

- ~\$34 m cash & cash equivalents ¹
- Complete SEAMLESS ~ end of 2014; data read-out
 ~ 2H 2015 (costs to data readout ~ \$12 m)
- Other R&D costs and G&A: ~ \$8-9 m annually ³

Fully diluted shares: ~ 25.3 million 1, 2

No debt

- 1. Company 10-Q June 30, 2014. Common stock outstanding: 22.7 million.
- 2. Includes 1.1 million warrants and options with an exercise price > \$10 per share.
- Excludes cost of MDS Ph 2b RCT





Key Milestones



Sapacitabine

- SEAMLESS: 300-patient DSMB review
- SEAMLESS: interim analysis for futility
- SEAMLESS: complete enrollment
- MDS: open enrollment of Phase 2b after HMA failure
- Sapacitabine & seliciclib in patients with solid tumors: update Phase 1 data

Other

Advance early-stage pipeline





Summary



- Sapacitabine opportunity in front line AML:
 SEAMLESS approaching completion
- Sapacitabine in MDS: Phase 2 data, high-reward
- Strong financial position: sufficient capital beyond SEAMLESS data read-out
- Early-stage pipeline addressing high-interest targets & mechanisms of action





Cyclacel Pharmaceuticals



Cell cycle pioneers

Improving patient lives

With orally-available

Innovative medicines



