Recent Advances in Hematologic Oncology: A 4-Part Live Webinar Series Reviewing Key Data and Presentations from the 62<sup>nd</sup> ASH Annual Meeting

## Part 1 — Acute Myeloid Leukemia

Wednesday, January 20, 2021 5:00 PM – 6:00 PM ET

Faculty Daniel A Pollyea, MD, MS Eytan M Stein, MD Andrew H Wei, MBBS, PhD



#### Faculty



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Associate Professor of Medicine
Clinical Director of Leukemia Services
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#### **Commercial Support**

This activity is supported by educational grants from AbbVie Inc, Astellas, Bristol-Myers Squibb Company, Daiichi Sankyo Inc, Genentech, a member of the Roche Group, Helsinn Healthcare SA and Pfizer Inc.



#### **Dr Love — Disclosures**

**Dr Love** is president and CEO of Research To Practice. Research To Practice receives funds in the form of educational grants to develop CME activities from the following commercial interests: AbbVie Inc, Acerta Pharma — A member of the AstraZeneca Group, Adaptive Biotechnologies Corporation, Agendia Inc, Agios Pharmaceuticals Inc, Amgen Inc, Array BioPharma Inc, a subsidiary of Pfizer Inc, Astellas, AstraZeneca Pharmaceuticals LP, Bayer HealthCare Pharmaceuticals, Biodesix Inc, bioTheranostics Inc, Blueprint Medicines, Boehringer Ingelheim Pharmaceuticals Inc, Bristol-Myers Squibb Company, Celgene Corporation, Clovis Oncology, Daiichi Sankyo Inc, Dendreon Pharmaceuticals Inc, Eisai Inc, EMD Serono Inc, Epizyme Inc, Exact Sciences Inc, Exelixis Inc, Foundation Medicine, Genentech, a member of the Roche Group, Genmab, Gilead Sciences Inc, GlaxoSmithKline, Grail Inc, Guardant Health, Halozyme Inc, Helsinn Healthcare SA, ImmunoGen Inc, Incyte Corporation, Infinity Pharmaceuticals Inc, Ipsen Biopharmaceuticals Inc, Janssen Biotech Inc, administered by Janssen Scientific Affairs LLC, Jazz Pharmaceuticals Inc, Karyopharm Therapeutics, Kite, A Gilead Company, Lexicon Pharmaceuticals Inc, Lilly, Loxo Oncology Inc, a wholly owned subsidiary of Eli Lilly & Company, Merck, Merrimack Pharmaceuticals Inc, Myriad Genetic Laboratories Inc, Natera Inc, Novartis, Novocure Inc, Oncopeptides, Pfizer Inc, Pharmacyclics LLC, an AbbVie Company, Prometheus Laboratories Inc, Puma Biotechnology Inc, Regeneron Pharmaceuticals Inc, Sandoz Inc, a Novartis Division, Sanofi Genzyme, Seagen Inc, Sirtex Medical Ltd, Spectrum Pharmaceuticals Inc, Sumitomo Dainippon Pharma Oncology Inc, Taiho Oncology Inc, Takeda Oncology, Tesaro, A GSK Company, Teva Oncology, Tokai Pharmaceuticals Inc. and Verastem Inc.



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#### **Dr Stein — Disclosures**

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#### **Dr Wei — Disclosures**

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# **ONCOLOGY TODAY** WITH DR NEIL LOVE

#### ACUTE MYELOID LEUKEMIA WITH FLT3 MUTATIONS



#### DR KEITH PRATZ UNIVERSITY OF PENNSYLVANIA







Dr Keith Pratz Acute Myeloid Leukemia Oncology Today with Dr Neil Love —

(15) (30)

Year in Review — Clinical Investigators Provide Perspectives on the Most Relevant New Publications, Data Sets and Advances in Oncology: Chronic Lymphocytic Leukemia Thursday, January 21, 2021 5:00 PM – 6:00 PM ET

> Faculty Matthew S Davids, MD, MMSc Jennifer Woyach, MD



# Meet The Professor Management of Ovarian Cancer

Friday, January 22, 2021 1:15 PM – 2:15 PM ET

#### Faculty Professor Jonathan A Ledermann, MD



Cancer Conference Update: What Happened at the 2020 San Antonio Breast Cancer Symposium<sup>®</sup> Management of HER2-Positive Breast Cancer

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**Targeted Therapy for Lung Cancer** 

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Faculty Joel W Neal, MD, PhD Paul K Paik, MD



Cases from the Community: Investigators Discuss Emerging Research and Actual Patients with Hepatocellular Carcinoma (Part 1 of a 3-Part Series)

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> > Modera











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Module 2: FLT3 inhibitors — Midostaurin, gilteritinib, quizartinib

Module 3: IDH inhibitors — Ivosidenib, enasidenib

Module 4: Oral azacitidine (CC-486)

Module 5: Secondary AML — CPX-351

Module 6: Novel agents and strategies — Gemtuzumab ozogamicin, glasdegib, magrolimab



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# Venetoclax and Azacitidine for Newly Diagnosed Non-Elderly Adult Patients with Acute Myeloid Leukemia and Adverse Risk Features

Gutman JA et al. ASH 2020;Abstract 2855.



# Phase 2 Study Design



Frequent analysis (6 stages) to ensure CR rate ≥60%



Gutman JA et al. ASH 2020;Abstract 2855.

# Outcomes

- 6/8 responded
  - 6/6 responses were CR
  - 4/6 cytogenetic remissions
  - 5/6 MRD negative by multi-parameter flow cytometry
  - 1/6 MRD negative by digital droplet PCR
- 2 relapses, 35 and 84 days after remission
- 7/8 proceeded to transplant; no relapses after transplant, median 340 days
- 7/8 alive



Phase II Study of Venetoclax Added to Cladribine + Low Dose AraC (LDAC) Alternating with 5-Azacytidine Demonstrates High Rates of Minimal Residual Disease (MRD) Negative Complete Remissions (CR) and Excellent Tolerability in Older Patients with Newly Diagnosed Acute Myeloid Leukemia

Kadia TM et al. ASH 2020;Abstract 25.



Cladribine/LDAC + Venetoclax in Older AML

## Responses

Response / Outcome	N	%	MRD(-)
Evaluable for Response	54	98	
CR	42	78	39 ( <mark>93</mark> )
CRi	8	15	3 (38)
CR + CRi (CRc)	50	93	42 ( <mark>84</mark> )
No Response	4	7	
Died ≤ 4 weeks	1	2	
Died ≤ 8 weeks	2	4	
Median # of cycles given (Range)	2 (1 – 14)		
Median # of cycles to response (Range)	1 (1-3)		

Median follow-up in Surviving Patients : 14.2 months



# Results of Venetoclax and Azacitidine Combination in Chemotherapy Ineligible Untreated Patients with Acute Myeloid Leukemia with *FLT3* Mutations

Konopleva M et al. ASH 2020;Abstract 1904.



## Response rates in patients with FLT3 mutation



	Ven+Aza (n=40)	Pbo+Aza (n=22)
Median treatment duration, cycles (range)	7.0 (1.0 — 31.0)	5.0 (1.0 - 21.0)
Median time to CR/CRh, months (range)	1.0 (0.8 — 4.8)	3.2 (1.8 — 3.6)
Median time to CR/CRi, months (range)	1.2 (0.8 – 7.7)	2.8 (1.0 - 11.2)

Aza: Azacitidine; Pbo: Placebo; Ven: Venetoclax; CR: Complete remission; CRi: CR with incomplete hematologic recovery; NR: not reached; CR was defined as absolute neutrophil count >10<sup>3</sup>/µL, platelets >10<sup>5</sup>/µL, red cell transfusion independence (TI), and bone marrow with <5% blasts; CRi was defined as all criteria for CR, except for neutropenia <10<sup>3</sup>/µL or thrombocytopenia <10<sup>3</sup>/µL, sample size for time to response analysis included responders only



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Konopleva M et al. ASH 2020; Abstract 1904.

# Results of Venetoclax and Azacitidine Combination in Chemotherapy Ineligible Untreated Patients with Acute Myeloid Leukemia with *IDH 1/2* Mutations

Pollyea DA et al. ASH 2020;Abstract 461.



# Venetoclax with Azacitidine plus chemotherapy for AML with IDH1/2 Mutation: Overall Survival





Pollyea DA et al. ASH 2020; Abstract 461.

Delays in Time to Deterioration of Health-Related Quality of Life Were Observed in Patients with Acute Myeloid Leukemia Receiving Venetoclax in Combination with Azacitidine or in Combination with Low-Dose Cytarabine

Pratz KW et al. ASH 2020;Abstract 589.



# Ten-Day Decitabine with Venetoclax versus Intensive Chemotherapy in Relapsed or Refractory Acute Myeloid Leukemia: A Propensity Score Matched Analysis

Maiti A et al. ASH 2020;Abstract 637.



# **Ten-Day Decitabine with Venetoclax versus Chemotherapy: Overall Survival**





Maiti A et al. ASH 2020; Abstract 637.

# Phase II AMLM25 (INTERVENE) Trial Design



Endpoints: Objective response, safety/DLT, overall survival

https://www.anzctr.org.au/Trial/Registration/TrialReview.aspx?id=378194



# Phase III PRAN-16-52 Trial Design

### Eligibility (N = 406)

- Newly diagnosed AML (including de novo, secondary to hematologic disorders or treatment-related disease with intermediate or unfavorable-risk cytogenetics)
- Ineligibility for intensive chemotherapy
- ECOG PS 0-2



#### Primary endpoint: Overall survival

**Secondary endpoints include** morphologic CR rate, CR without MRD, cytogenetic CR rate and transfusion independence



www.clinicaltrials.gov (NCT03151408) - Accessed November 2020. Garcia-Manero G et al. ASCO 2018; Abstract TPS7078.

### Phase III PRAN-16-52 Trial Discontinued After Completing Interim Analysis Press Release: July 02, 2020

"An interim futility analysis of the ongoing Phase 3 study of pracinostat in combination with azacitidine in patients with AML who are unfit to receive standard intensive chemotherapy, undertaken by the study Independent Data Monitoring Committee ('IDMC'), has demonstrated it was unlikely to meet the primary endpoint of overall survival compared to the control group.

Based on the outcome of the interim analysis, the decision was made to discontinue the recruitment of patients and end the study. The decision was based on a lack of efficacy and not on safety concerns.

# Pending further evaluation, patients currently enrolled in other pracinostat studies will continue treatment."

https://www.globenewswire.com/news-release/2020/07/02/2056824/0/en/Helsinn-Group-and-MEI-Pharma-Discontinue-the-Phase-3-Study-with-Pracinostat-in-AML-after-Completing-Interim-Analysis.html



Interim Analysis of the Phase 1b/2 Study of the BCL-2 Inhibitor Venetoclax in Combination with Standard Intensive AML Induction/Consolidation Therapy with FLAG-IDA in Patients with Newly Diagnosed or Relapsed/Refractory AML

Lachowiez C et al. ASH 2020;Abstract 332.



## **FLAG-IDA-VEN: Event-Free and Overall Survival**



Phase 2A	Phase 1b	Phase 2B
NR	6 (3-NE)	11 (2-NE)
NR	9 (4.9-NE)	NR
94%	38%	68%
	Phase 2A NR NR 94%	Phase 2A Phase 1b   NR 6 (3-NE)   NR 9 (4.9-NE)   94% 38%

\*Median study follow up: 12 months

Lachowiez C et al. ASH 2020; Abstract 332.

# Allogeneic Transplant Improves AML Outcomes Compared to Maintenance Venetoclax and Azacitidine Following Response to Initial Venetoclax and Azacitidine Therapy

Pollyea DA et al. ASH 2020;Abstract 78.



# **Allogeneic Transplant: Overall Survival**





Pollyea DA et al. ASH 2020; Abstract 78.

What initial treatment would you recommend for a 65year-old man with AML with a PS of 1 and pancytopenia, 35% marrow myeloblasts, a complex karyotype and a TP53 mutation?



# What initial treatment would you generally recommend for an 80-year-old patient with AML and <u>intermediate-risk</u> cytogenetics?

MARK LEVIS, MD	Azacitidine + venetoclax	ANDREW H WEI, MBBS, PHD	Azacitidine + venetoclax	
ALEXANDER PERL, MD	Azacitidine + venetoclax	COURTNEY D DINARDO, MD, MSCE	Azacitidine + venetoclax	
DANIEL A POLLYEA, MD, MS	Azacitidine + venetoclax	ALICE S MIMS, MD	Azacitidine + venetoclax	
EYTAN M STEIN, MD	Azacitidine + venetoclax	EUNICE S WANG, MD	Azacitidine + venetoclax	
GENERAL MEDICAL ONCOLOGISTS (N = 75) Azacitidine + venetoclax				

# What initial treatment would you generally recommend for an 80-year-old patient with AML and <u>poor-risk</u> cytogenetics?



# Agenda

Module 1: Venetoclax combinations — Azacitidine, decitabine, LDAC, pracinostat

Module 2: FLT3 inhibitors — Midostaurin, gilteritinib, quizartinib

Module 3: IDH inhibitors — Ivosidenib, enasidenib

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Module 5: Secondary AML — CPX-351

Module 6: Novel agents and strategies — Gemtuzumab ozogamicin, glasdegib, magrolimab



Phase 3, Multicenter, Open-Label Study of Gilteritinib, Gilteritinib plus Azacitidine, or Azacitidine Alone in Newly Diagnosed FLT3 Mutated (FLT3mut+) Acute Myeloid Leukemia (AML) Patients Ineligible for Intensive Induction Chemotherapy

Wang ES et al. ASH 2020;Abstract 27.



## Type and Duration of Response with Gilteritinib in Combination With AZA and End of Treatment Reasons Safety Cohort (N = 15)



- CR and CRc were achieved by 33% (n = 5/15) and 67% (n = 10/15), respectively, of patients in the safety cohort.
- Among the 10 patients with CRc, the median (95% CI) duration of remission was 10.4 (0.95–NR) months, with 5 patients being censored.

AZA, azacitidine; CR, complete remission; CRc, composite complete remission; CRi, complete remission with incomplete hematologic recovery; CRp, complete remission with incomplete platelet recovery; ITD, internal tandem duplication; NR, not reached; PR, partial remission; TKD, tyrosine kinase domain; WT, wild type.



#### Wang ES et al. ASH 2020; Abstract 27.

# Clinical Outcomes Following Treatment with Gilteritinib or Quizartinib in Patients with Relapsed/Refractory FLT3-ITD+ Acute Myeloid Leukemia

Perl AE et al. ASH 2020;Abstract 995.



### Results Overall Survival

- Median overall survival (OS) in patients treated with quizartinib or gilteritinib was longer than that observed with salvage chemotherapy (SC)
  - After a median follow-up of 17.4 mos, median OS in the matched ADMIRAL ITT population was 10.2 mos with gilteritinib versus 5.6 mos with SC (HR=0.573 [95% CI: 0.403, 0.814]; one-sided nominal P=0.0008) (Figure)
  - After a median follow-up of 23.5 mos, median OS in the QuANTUM-R ITT population was 6.2 mos with quizartinib versus 4.7 mos with SC (HR=0.76 [95% CI: 0.58-0.98]; onesided P=0.02)<sup>1</sup>



1. Cortes JE, et al. Lancet Oncol. 2019; 20(7):984-997.



Abbreviations: CI, confidence interval; HR, hazard ratio; mos, months; OS, overall survival..



Perl AE et al. ASH 2020; Abstract 995.

# **Clinical Outcomes in Patients with Relapsed/Refractory Acute Myeloid Leukemia Treated with Gilteritinib Who Received Prior Midostaurin or Sorafenib**

Perl AE et al. ASH 2020;Abstract 334.





Abbreviations: CI, confidence interval; HR, hazard ratio; OS, overall survival; TKI, tyrosine kinase inhibitor.



Perl AE et al. ASH 2020; Abstract 334.

S American Society of Hematology
### A Phase 1 Study of Gilteritinib in Combination with Induction and Consolidation Chemotherapy in Patients with Newly Diagnosed AML: Final Results

Pratz KW et al. ASH 2020;Abstract 24.



## **Gilterinitib in Combination with 7 + 3 Induction: Clinical Response**

Response Parameter, n (%)	FLT3 <sup>mut+</sup> Patients who Received 120 mg/d (N=38)	
CR	15 (39.5)	
CRp	1 (2.6)	
CRi	15 (39.5)	
CRc	31 (81.6)	



Pratz KW et al. ASH 2020; Abstract 24.

### Gilteritinib Remains Clinically Active in Relapsed/Refractory FLT3 Mutated AML Previously Treated with FLT3 Inhibitors

Numan Y et al. ASH 2020;Abstract 262.



Quizartinib with Decitabine +/- Venetoclax Is Highly Active in Patients (Pts) with FLT3-ITD Mutated (mut) Acute Myeloid Leukemia (AML): Clinical Report and Signaling Cytof Profiling from a Phase IB/II Trial

Yilmaz M et al. ASH 2020;Abstract 26.



#### **OS – DAC + Quizartinib (R/R FLT3** AML, N = 6)

#### **OS – DAC + Quizartinib + Venetoclax in Front-Line and R/R FLT3 AML**



Median follow-up: 16 months

Yilmaz M et al. ASH 2020; Abstract 26.

Efficacy and Safety of Venetoclax in Combination with Gilteritinib for Relapsed/Refractory FLT3-Mutated Acute Myeloid Leukemia in the Expansion Cohort of a Phase 1b Study

Daver N et al. ASH 2020;Abstract 333.



## Summary of Best Responses



The 85% mCRc rate compares favorably to the 52% CRc rate (using the same response parameters), with single agent Gilt in the ADMIRAL phase 3 study<sup>1</sup>

Data cut off: April 15, 2020. Analyses were conducted using data from all treated ITD and/or TKD patients irrespective of the availability of postbaseline disease assessment data prior to data cut-off date (ITT analysis), including patients who received non-RP2D dose during dose expansion phase. Two on-treatment patients did not have their first disease assessment at the cutoff date and were not included in the efficacy analyses. No patients achieved partial remission. One patient (TKD only) discontinued with no response data

AML, acute myeloid leukemia; CI, confidence interval; CR, complete remission; CRi, CR with incomplete blood count recovery; CRp, CR with incomplete platelet recovery;

FLT3, FMS-like tyrosine kinase 3; Gilt, gilteritinib; ITD, internal tandem duplications; mCRc, ITT, intention to treat; modified composite complete remission; MLFS, morphologic leukemia free state; NE, not estimable; PD, progressive disease; RD, resistant disease; TKI, tyrosine kinase inhibitor; TKD, tyrosine kinase domain 1, Perl AE, et al. N Engl J Med. 2019;381(18);1728–1740

What would you recommend as first-line therapy to a <u>60-year-old</u> patient who presents with intermediate-risk AML and a FLT3-TKD mutation?

MARK LEVIS, MD	7 + 3 induction + midostaurin	ANDREW H WEI, MBBS, PHD	7 + 3 induction + midostaurin
ALEXANDER PERL, MD	7 + 3 induction + midostaurin	COURTNEY D DINARDO, MD,	7 + 3 induction + midostaurin
DANIEL A POLLYEA, MD, MS	7 + 3 induction + midostaurin	ALICE S MIMS, MD	7 + 3 induction + midostaurin
EYTAN M STEIN, MD	7 + 3 induction + midostaurin	EUNICE S WANG, MD	7 + 3 induction + midostaurin
GENERAL MEDICAL ONCOLOGISTS (N = 75) 7 + 3 induction + midostaurin			

What would you recommend as first-line therapy to a <u>60-year-old</u> patient who presents with intermediate-risk AML and a FLT3-ITD mutation?



What would you recommend as first-line therapy to a <u>78-year-old</u> patient (PS 0) who presents with intermediate-risk AML with a <u>FLT3-ITD</u> mutation?

- 1. Midostaurin
- 2. 7 + 3 induction + midostaurin
- 3. Hypomethylating agent (HMA)
- 4. HMA + venetoclax
- 5. HMA + venetoclax + FLT3 inhibitor
- 6. Low-dose cytarabine + venetoclax
- 7. Low-dose cytarabine + venetoclax + FLT3 inhibitor
- 8. Gilteritinib
- 9. Other



# What would you recommend as first-line therapy to a <u>78-year-old</u> patient (<u>PS 0</u>) who presents with intermediaterisk AML with a <u>FLT3-ITD</u> mutation?



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### A Phase I Study of the IDH2 Inhibitor Enasidenib as Maintenance Therapy for IDH2-Mutant Myeloid Neoplasms Following Hematopoietic Cell Transplantation

Fathi AT et al. ASH 2020;Abstract 2402.



## Safety and Tolerability



Dose Level	Enrollment	Dose Limiting Toxicity	Attributable ≥ Grade 3 Adverse Events
1 (50mg QD)	3	No	G3 Anemia
2 (100mg QD)	6	No	G3 Bilirubinemia, G4 Neutropenia
Expansion (100mg QD)	7 (of 10)	NA	

- Six patients (38%) have required dose interruptions lasting a median of 19 days (range 7-25 days).
- Four patients have required a dose reduction to 50mg from 100mg daily.
- In total, 3 patients (18%) have to date discontinued study treatment, one for G3 bilirubinemia, one to pursue another trial for GVHD, and one for relapse.
- Three patients have experienced ≥ G2 acute GVHD, and four patients experienced moderate chronic GVHD.



Enasidenib (ENA) Monotherapy with Addition of Azacitidine in Non-Responders Is Effective in Older Patients with Newly Diagnosed IDH2 Mutated Acute Myeloid Leukemia (AML): A Completed Phase 2/1b Sub-Study of the Beat AML Master Trial

Stein EM et al. ASH 2020;Abstract 636.



## **S3 - STUDY DESIGN AND OBJECTIVES**



Stein EM et al. ASH 2020; Abstract 636.

## RESPONSE

Parameter	Phase 2 Enasidenib 100 mg/day (n=60)	Phase 1b Enasidenib + Azacitidine (n=17)
Duration of Response in months Median, 95% Cl	NR, 7.1-NR	NR, 2.5 – NR
Overall Survival Median in months, 95% Cl	24.4, 10.6-NE	8.9 <i>,</i> 5.2-NE
Median Follow-up in months (range)	14.6 (6.2-33.5)	12.7 (1.1-31.4)

Stein EM et al. ASH 2020; Abstract 636.

### Molecular Characterization of Clinical Response and Relapse in Patients with IDH1-Mutant Newly Diagnosed Acute Myeloid Leukemia Treated with Ivosidenib and Azacitidine

Daigle SR et al. ASH 2020;Abstract 1943.



### Longitudinal Molecular Profiling in Patients with IDH1-Mutant Newly Diagnosed Acute Myeloid Leukemia Treated with Ivosidenib

Choe S et al. ASH 2020;Abstract 2900.



#### Single-cell DNAseq dataset summary (n = 30)



- Baseline and longitudinal single-cell DNAseg profiling was performed on PBMC samples from 30 patients using MissionBio's Tapestri<sup>™</sup> 20-gene AML panel
- As a result of the higher sensitivity of the single-cell DNAseg platform (0.1%), IDH2 mutations were detected more frequently upon treatment than with bulk sequencing (8 out of 30 patients). In this dataset, IDH2 mutations did not co-occur with mIDH1 in the same cell
- RTK pathway mutations were also frequently detected in IDH1 wild type clones (8 out of 12 patients with mutations in NRAS, KRAS, or PTPN11)
- x IDH1 R119P acquired in cis
- Relapse or disease progression timepoint
- Case Studies (following slides)

CR = complete response; CRh = complete response with partial hematologic recovery; DNAseq = deoxyribonucleic acid sequencing; IDH = isocitrate dehydrogenase; m = mutant; PD = progressive disease; SD = stable disease; wt = wild type; DTA = DNMT3A, TET2, and/or ASXL1



### **Transplant Outcomes for IDH-Mutated AML: Good Outcomes Thanks to Keeping Good Company**

Ambinder AJ et al. ASH 2020;Abstract 1525.



What would you recommend as first-line therapy to a <u>60-year-old</u> patient who presents with intermediate-risk AML with an <u>IDH1</u> mutation?



What would you recommend as first-line therapy to a <u>78-year-old</u> patient (<u>PS 0</u>) who presents with intermediate-risk AML with an <u>IDH1</u> mutation?

- 1. 7 + 3 induction
- 2. HMA
- 3. HMA + venetoclax
- 4. HMA + venetoclax + ivosidenib
- 5. Low-dose cytarabine + venetoclax
- 6. Low-dose cytarabine + venetoclax + ivosidenib
- 7. HMA + ivosidenib
- 8. Ivosidenib
- 9. Other



# What would you recommend as first-line therapy to a <u>78-year-old</u> patient (<u>PS 0</u>) who presents with intermediate-risk AML with an <u>IDH1</u> mutation?

MARK LEVIS, MD	Azacitidine + ivosidenib	ANDREW H WEI, MBBS, PHD	Azacitidine + venetoclax
ALEXANDER PERL, MD	Azacitidine + venetoclax	COURTNEY D DINARDO, MD, MSCE	Azacitidine + ivosidenib
DANIEL A POLLYEA, MD, MS	Azacitidine + venetoclax	ALICE S MIMS, MD	Ivosidenib
EYTAN M STEIN, MD	Azacitidine + venetoclax	EUNICE S WANG, MD	Azacitidine + venetoclax
GENERAL MEDICAL ONCOLOGISTS (N = 75) Azacitidine + venetoclax, Ivosidenib			

What would you generally recommend as the next line of treatment for a <u>60-year-old</u> patient with AML with an <u>IDH2</u> mutation who has experienced disease progression after <u>7 + 3 induction, consolidation</u> <u>therapy and transplant</u>?

- 1. Chemotherapy
- 2. HMA + venetoclax
- 3. HMA + venetoclax + enasidenib
- 4. Low-dose cytarabine
- 5. Low-dose cytarabine + venetoclax
- 6. Low-dose cytarabine + venetoclax + enasidenib
- 7. HMA + enasidenib
- 8. Enasidenib
- 9. Other



What would you generally recommend as the next line of treatment for a <u>60-year-old</u> patient with AML with an <u>IDH2</u> mutation who has experienced disease progression after <u>7 + 3</u> induction, consolidation therapy and transplant?



What would you generally recommend as the next line of treatment for a <u>78-year-old</u> patient with AML with an <u>IDH2</u> mutation who has experienced disease progression after <u>venetoclax/azacitidine</u>?



A 65-year-old patient presents with new-onset shortness of breath, hypoxemia and fever 3 weeks into therapy with ivosidenib for relapsed AML. Chest CT reveals diffuse ground glass infiltrates. The patient has an ANC of 600, 27% blasts in the blood and has been receiving prophylaxis with levofloxacin and acyclovir only. What would you recommend?

MARK LEVIS, MD	Continue ivosidenib and begin antibiotics and corticosteroids	ANDREW H WEI, MBBS, PHD	Continue ivosidenib and begin antibiotics and corticosteroids
ALEXANDER PERL, MD	Test for COVID-19; continue ivosidenib and begin antibiotics and corticosteroids	COURTNEY D DINARDO, MD, MSCE	Continue ivosidenib and begin antibiotics and corticosteroids
DANIEL A POLLYEA, MD, MS	Continue ivosidenib and begin antibiotics and corticosteroids	ALICE S MIMS, MD	Continue ivosidenib and begin antibiotics and corticosteroids
EYTAN M STEIN, MD	Continue ivosidenib and begin antibiotics and corticosteroids	EUNICE S WANG, MD	Continue ivosidenib and begin antibiotics and corticosteroids
GENERAL MEDICAL ONCOLOGISTS (N = 75) Continue ivosidenib and begin antibiotics and corticosteroids			

#### Agenda

Module 1: Venetoclax combinations — Azacitidine, decitabine, LDAC, pracinostat

Module 2: FLT3 inhibitors — Midostaurin, gilteritinib, quizartinib

Module 3: IDH inhibitors — Ivosidenib, enasidenib

Module 4: Oral azacitidine (CC-486)

Module 5: Secondary AML — CPX-351

Module 6: Novel agents and strategies — Gemtuzumab ozogamicin, glasdegib, magrolimab



CC-486 Improves Overall Survival (OS) and Relapse-Free Survival (RFS) for Patients with Acute Myeloid Leukemia (AML) in First Remission after Intensive Chemotherapy (IC), Regardless of Amount of Consolidation Received: Results from the Phase III QUAZAR AML-001 Maintenance Trial

Wei AH et al. ASH 2020;Abstract 1036.



#### Relapse-free survival by number of consolidations

- Within each consolidation-based cohort, RFS was significantly prolonged with Oral-AZA vs placebo
- Median RFS ranged from 8.4–13.0 mo in the Oral-AZA arm and 3.9–6.1 mo in the placebo arm



RFS estimates were derived using Kaplan-Meier methods and compared for Oral-AZA vs. placebo using log-rank test. Hazard ratios (HRs) and 95% CIs were generated using a stratified Cox proportional hazards model.

95%CI, 95% confidence interval; AZA, azacitidine; HR, hazard ratio; No., number; pts, patients; RFS, relapse-free survival.

#### Wei AH et al. ASH 2020; Abstract 1036.

#### Overall survival by number of consolidations

- OS was also prolonged with Oral-AZA within each consolidation cohort
- Median OS ranged from 21.0–28.6 months in the Oral-AZA arm and 10.9–17.6 months in the placebo arm



OS estimates were derived using Kaplan-Meier methods and compared for Oral-AZA vs. placebo using log-rank test. Hazard ratios (HRs) and 95% CIs were generated using a stratified Cox proportional hazards model.

95%CI, 95% confidence interval; AZA, azacitidine; HR, hazard ratio; No., number; OS, overall survival; pts, patients.

Wei AH et al. ASH 2020; Abstract 1036.

CC-486 Prolongs Survival for Patients with Acute Myeloid Leukemia (AML) in Remission After Intensive Chemotherapy (IC) Independent of the Presence of Measurable Residual Disease (MRD) at Study Entry: Results from the QUAZAR AML-001 Maintenance Trial

Roboz GJ et al. ASH 2020;Abstract 692.



## **QUAZAR AML-001: Relapse-Free Survival by Baseline MRD**





Roboz GJ et al. ASH 2020; Abstract 692.

Escalated Dosing Schedules of CC-486 Are Effective and Well Tolerated for Patients Experiencing First Acute Myeloid Leukemia (AML) Relapse: Results from the Phase III QUAZAR AML-001 Maintenance Trial

Dohner H et al. ASH 2020;Abstract 111.



#### Escalated dosing cohort: Overall survival





Overall survival estimated using Kaplan-Meier methods. The hazard ratio (HR) and 95% confidence intervals comparing Oral-AZA vs. placebo are from a Cox proportional hazards model, and the P value is from an unstratified log-rank test.

95%CI, 95% confidence interval; AZA, azacitidine; HR, hazard ratio; mo, months; OS, overall survival; No., number.

CLOTHICS

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Health-Related Quality of Life with CC-486 in Patients with Acute Myeloid Leukemia (AML) in First Remission Following Induction Chemotherapy (IC): Results from the Phase III QUAZAR AML-001 Maintenance Trial

Roboz GJ et al. ASH 2020;Abstract 214.



A 65-year-old with intermediate-risk AML, no actionable mutations and a PS of 0 receives standard 7 + 3 induction. He achieves a complete remission after 2 cycles of induction and then receives 2 cycles of high-dose cytarabine as consolidation but ultimately declines transplant. Would you offer this patient maintenance therapy?

- 1. Yes
- 2. Yes, with oral azacitidine (CC-486)
- 3. No



A 65-year-old patient with intermediate-risk AML, no actionable mutations and a PS of 0 receives standard 7 + 3 induction. He achieves a complete remission after 2 cycles of induction and then receives 2 cycles of high-dose cytarabine as consolidation but ultimately declines transplant. Would you offer this patient maintenance therapy?



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Module 4: Oral azacitidine (CC-486)

Module 5: Secondary AML — CPX-351

Module 6: Novel agents and strategies — Gemtuzumab ozogamicin, glasdegib, magrolimab



Five-Year Final Results of a Phase 3 Study of CPX-351 versus 7 + 3 in Older Adults with Newly Diagnosed High-Risk/Secondary Acute Myeloid Leukemia (AML): Outcomes by Age Subgroup and Among Responders

Lancet JE et al. ASH 2020;Abstract 635.



## CPX-351 versus 7 + 3: Five-Year Overall Survival for Patients Aged 70 to 75 years



Months from randomization



Lancet JE et al. ASH 2020; Abstract 635.

# Phase II Study of CPX-351 plus Venetoclax in Patients with Acute Myeloid Leukemia (AML)

Kadia TM et al. ASH 2020;Abstract 28.



#### CPX351 + Venetoclax in AML

## Responses

Response / Outcome	N	%
Evaluable for Response	18	90
CR	1	6
CRi	6	33
MLFS	1	6
ORR	8	44
Died ≤ 4 weeks	2	10
Died ≤ 8 weeks	4	20
Median # of cycles given [Range]	1 [1 – 2]	
Median # of cycles to response	1 [1-2]	
No. of Responding Pts Receiving SCT	7	88
Median time to count recover (days)	41 [23 - 60]	



### V-FAST: A Phase 1b Master Trial to Investigate CPX-351 Combined with Various Targeted Agents in Patients with Previously Untreated Acute Myeloid Leukemia

Lin T et al. ASH 2020;Abstract 1025.



Liposomal Cytarabine and Daunorubicin (CPX-351) in Combination with Gemtuzumab Ozogamicin (GO) in Relapsed Refractory (R/R) Patients with Acute Myeloid Leukemia (AML) and Post-Hypomethylating Agent (Post-HMA) Failure High-Risk Myelodysplastic Syndrome (HR-MDS)

Ramos Perez JM et al. ASH 2020;Abstract 987.



# **CPX-351 in Combination with Gemtuzumab Ozogamicin in Relapsed/Refractory AML**

**Overall Survival** 

#### **Complete Remission Duration**





Ramos Perez JM et al. ASH 2020; Abstract 987.

### Routine Laboratory Values Can Predict Therapy-Related Myeloid Neoplasms in Patients with New Cytopenias After Treatment for Breast Cancer

Petrone G et al. ASH 2020;Abstract 1918.



A 65-year-old patient with a history of myelodysplastic syndrome treated with azacitidine for 10 months presents 1 year later with AML with 35% marrow blasts, trisomy 8 and ASXL1, NRAS and U2AF1 mutations (VAFs 45, 20 and 45, respectively). What would you recommend?

- 1. 7 + 3 induction
- 2. CPX-351
- 3. Decitabine
- 4. Decitabine + venetoclax
- 5. Low-dose cytarabine + venetoclax
- 6. Low-dose cytarabine + glasdegib
- 7. Other



A 65-year-old patient with a history of myelodysplastic syndrome treated with azacitidine for 10 months presents 1 year later with AML with 35% marrow blasts, trisomy 8 and ASXL1, NRAS and U2AF1 mutations (VAFs 45, 20 and 45, respectively). What would you recommend?



What initial treatment would you recommend for a 64-year-old woman with a history of breast cancer, for which she received adjuvant chemotherapy, who now presents with bone marrow findings consistent with therapy-related AML?



#### Agenda

Module 1: Venetoclax combinations — Azacitidine, decitabine, LDAC, pracinostat

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Module 6: Novel agents and strategies — Gemtuzumab ozogamicin, glasdegib, magrolimab



## **Comparative Effectiveness of Glasdegib or Venetoclax in Combination with Low-Dose Cytarabine Using Simulated Treatment Comparisons**

Tremblay G et al. ASH 2020;Abstract 624.



## Treatment comparison results

#### ITC/STC OS HR forest plot





- The unadjusted ITC and adjusted STC estimated that GLAS+LDAC had lower mortality than VEN+LDAC
  - However, the results were not statistically significant
- Strengthening of the comparative OS advantage is likely because patient population in the glasdegib study had on average a worse prognosis based on more unfavorable baseline characteristics



Tremblay G et al. ASH 2020; Abstract 624.



Trial in Progress: Glad-AML – A Randomized, Phase 2 Trial of Glasdegib with Two Standard Decitabine Regimens for Older Patients with Newly-Diagnosed, Poor-Risk Acute Myeloid Leukemia

Shallis R et al. ASH 2020;Abstract 2825.



## **GLAD-AML: Glasdegib in Combination with Decitabine**





Shallis R et al. ASH 2020; Abstract 2825.

### The First-in-Class Anti-CD47 Antibody Magrolimab Combined with Azacitidine Is Well-Tolerated and Effective in AML Patients: Phase 1b Results

Sallman DA et al. ASH 2020;Abstract 330.



#### Magrolimab (Formerly 5F9) Is a First-in-Class Macrophage Immune Checkpoint Inhibitor Targeting CD47



- CD47 is a "do not eat me" signal that is overexpressed in multiple cancers, including acute myeloid leukemia, leading to macrophage immune evasion
- Magrolimab, an IgG4 anti-CD47 monoclonal antibody (mAb), eliminates tumor cells through macrophage phagocytosis
- Magrolimab is being investigated in multiple cancers with >500 patients dose



Control mAb: No Phagocytosis



Anti-CD47 mAb: Phagocytosis



Macrophages Cancer cells



Sallman DA et al. ASH 2020; Abstract 330.



### Magrolimab + AZA Induces High Response Rates in AML



Best Overall Response	All AML (N=43)	TP53-mutant AML (29)
ORR	27 (63%)	20 (69%)
CR	18 (42%)	13 (45%)
CRi	5 (12%)	4 (14%)
PR	1 (2%)	1 (3%)
MLFS	3 (7%)	2 (7%)
SD	14 (33%)	8 (28%)
PD	2 (5%)	1 (3%)



- Magrolimab + AZA induces a 63% ORR and 42% CR rate in AML, including similar responses in TP53-mutant patients
  - Median time to response is 1.95 months (range 0.95 to 5.6 mo), more rapid than AZA monotherapy ٠
  - 9.6% of patients proceeded to bone marrow stem cell transplantation ٠
  - Magrolimab + AZA efficacy compares favorably to AZA monotherapy (CR rate 18%-20%)<sup>1,2</sup> ٠

Response assessments per 2017 AML ELN criteria. Patients with at least 1 post-treatment response assessment are shown. \*Three patients not shown due to missing values; <5% blasts imputed as 2.5%. 1. Fenaux P, et al. J Clin Oncol. 2010;28(4):562-569. 2. Dombret H, et al. Blood. 2015;126(3):291-299.



#### Sallman DA et al. ASH 2020; Abstract 330.

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## A Phase 1 Study of LY3410738, a First-in-Class Covalent Inhibitor of Mutant IDH in Advanced Myeloid Malignancies (Trial in Progress)

Stein EM et al. ASH 2020;Abstract 2877.



### Flotetuzumab as Salvage Therapy for Primary Induction Failure and Early Relapse Acute Myeloid Leukemia

Aldoss I et al. ASH 2020;Abstract 331.



SY-1425, a Potent and Selective RARα Agonist, in Combination with Azacitidine Demonstrates a High Complete Response Rate and a Rapid Onset of Response in RARA-Positive Newly Diagnosed Unfit Acute Myeloid Leukemia

DeBotton S et al. ASH 2020;Abstract 112.



## Phase III PRAN-16-52 Trial Design

#### Eligibility (N = 406)

- Newly diagnosed AML (including de novo, secondary to hematologic disorders or treatment-related disease with intermediate or unfavorable-risk cytogenetics)
- Ineligibility for intensive chemotherapy
- ECOG PS 0-2



#### Primary endpoint: Overall survival

**Secondary endpoints include** morphologic CR rate, CR without MRD, cytogenetic CR rate and transfusion independence



www.clinicaltrials.gov (NCT03151408) - Accessed November 2020. Garcia-Manero G et al. ASCO 2018; Abstract TPS7078.

#### Phase III PRAN-16-52 Trial Discontinued After Completing Interim Analysis Press Release: July 02, 2020

"An interim futility analysis of the ongoing Phase 3 study of pracinostat in combination with azacitidine in patients with AML who are unfit to receive standard intensive chemotherapy, undertaken by the study Independent Data Monitoring Committee ('IDMC'), has demonstrated it was unlikely to meet the primary endpoint of overall survival compared to the control group.

Based on the outcome of the interim analysis, the decision was made to discontinue the recruitment of patients and end the study. The decision was based on a lack of efficacy and not on safety concerns.

# Pending further evaluation, patients currently enrolled in other pracinostat studies will continue treatment."

https://www.globenewswire.com/news-release/2020/07/02/2056824/0/en/Helsinn-Group-and-MEI-Pharma-Discontinue-the-Phase-3-Study-with-Pracinostat-in-AML-after-Completing-Interim-Analysis.html



Year in Review — Clinical Investigators Provide Perspectives on the Most Relevant New Publications, Data Sets and Advances in Oncology: Chronic Lymphocytic Leukemia Thursday, January 21, 2021 5:00 PM – 6:00 PM ET

> Faculty Matthew S Davids, MD, MMSc Jennifer Woyach, MD

> > Moderator Neil Love, MD



## Thank you for joining us!

# CME credit information will be emailed to each participant within 3 business days.

