

WELCOMING REMARKS
BREAKTHROUGHS AND PROGRESS: ACUTE MYELOID LEUKEMIA (AML)



Lizette Figueroa-Rivera, MA Sr. Director, Education & Support The Leukemia & Lymphoma Society



FACULTY BREAKTHROUGHS AND PROGRESS: ACUTE MYELOID LEUKEMIA (AML)



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Division of Hematology
Stanford Cancer Institute
Stanford University
Stanford, CA



3





BREAKTHROUGHS AND PROGRESS: ACUTE MYELOID LEUKEMIA

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Associate Professor of Medicine Division of Hematology, Stanford University May 29, 2025



Disclosures

Consultancy: Abbvie, Servier, Stemline

Scientific Advisory Committees: Abbvie, Astellas, BMS/Celgene, Genentech, Immunogen, Orbital, Rigel, Servier, Stemline, Wugen

Research Funding: Aptose, Astex, Blossom Hill, BMS/Celgene, Gilead, Glycomimetics, Jazz, Menarini-Stemline, Syndax, ImmuneOnc

5

Agenda

- Historical Perspective
- AML for Beginners
- Cool New Stuff in AML!

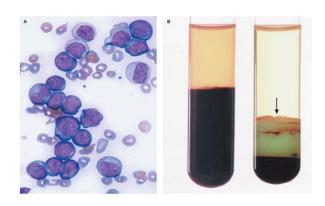
Historical Perspective

7

AML History

Peter Cullen (1811)

- Described a 35 year-old man with fever and abdominal pain
- Treated with blood-letting
- Serum described as milky white in color
- Likely the 1st published report of leukemia



AML History

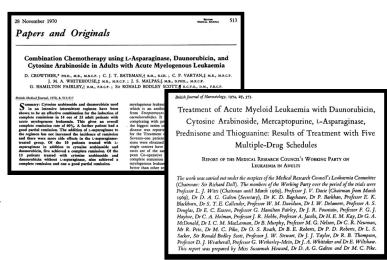
Rudolf Virchow (1847)

- Father of cell theory ("omnis cellula e cellula")
- Also known for Virchow's node, Virchow's triad, standardizing autopsies
- Coined the term "leukämie"



9

AML History



"7+3"

AML History

FDA Drug Approvals in AML, 1970s-2017:

- Gemtuzumab ozogamicin (2000)
- Withdrawn from market in 2010

"Boulevard of Broken Dreams"

Sekeres and Steensma, ICO 2012

11

AML History

FDA Drug Approvals in AML, 2017-2024:

04/28/17: Midostaurin (Rydapt; FLT3 inhibitor)

08/01/17: Enasidenib (IDHIFA; IDH2 inhibitor)

08/03/17: **Liposomal 7+3** (CPX-351/Vyxeos)

09/01/17: **Gemtuzumab ozogamicin** (Mylotarg; CD33 Antibody-Drug conjugate)

07/20/18: Ivosidenib (Tibsovo; IDH1 inhibitor)

11/21/18: Venetoclax (Venclexta; BCL2 inhibitor) + HMA/LDAC

11/21/18: **Glasdegib** (Daurismo; Hedgehog pathway inhibitor) + LDAC

11/28/18: Gilteritinib (Xospata; FLT3 inhibitor)

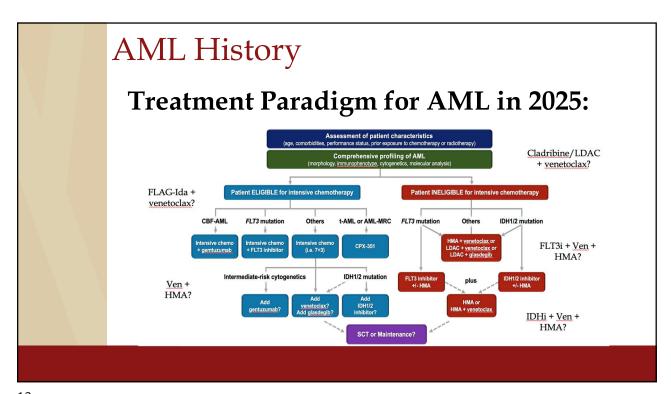
06/01/20: Oral azacitidine (Onureg; maintenance therapy)

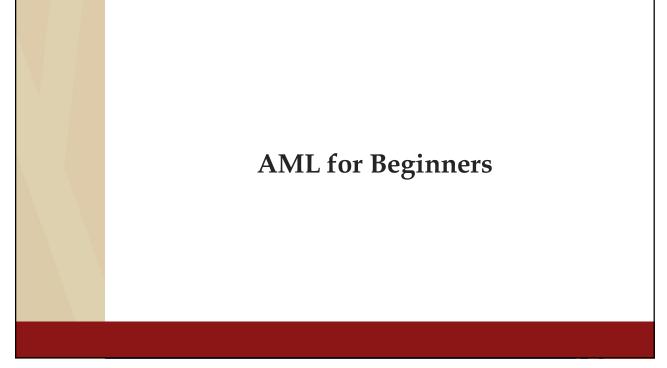
05/25/22: Ivosidenib + azacitidine

12/02/22: Olutasidenib (Rezlildhia; IDH1 inhibitor)

07/20/23: Quizartinib (Vanflyta; FLT3 inhibitor)

11/15/24: Revumenib (Revuforj; Menin inhibitor)





- What is AML?
- How did I get this?
- Is it curable?
- How is it treated?
- What can *I* do to help fight this?
- What other questions should I be asking?

15

AML for Beginners

• What is AML?

Acute

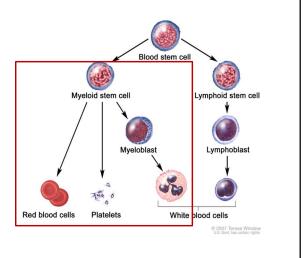
- Symptoms usually come on quickly (2-3 months or less)
- · Treatment often initiated urgently

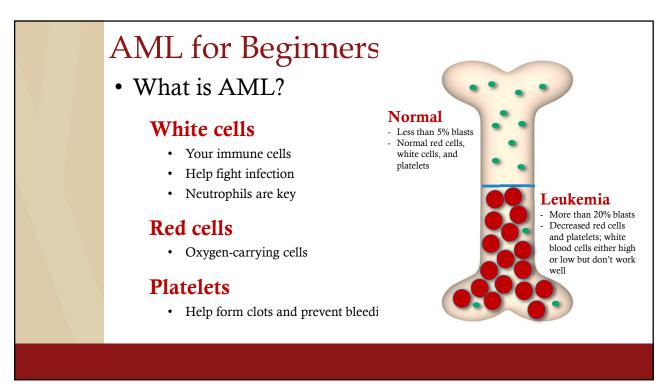
Myeloid

• Refers to the subtype of blood cell

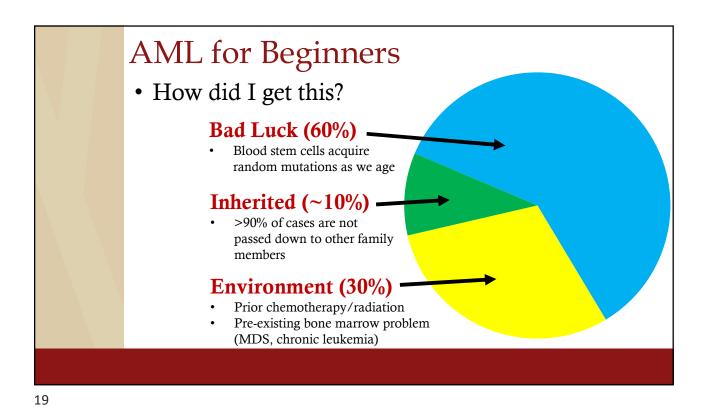
Leukemia

- · Cancer of blood cells
- Most commonly defined by >20%
 "blasts" in the blood or bone
 marrow

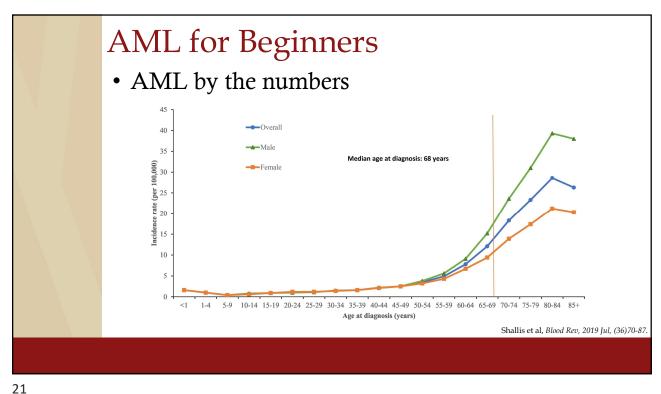


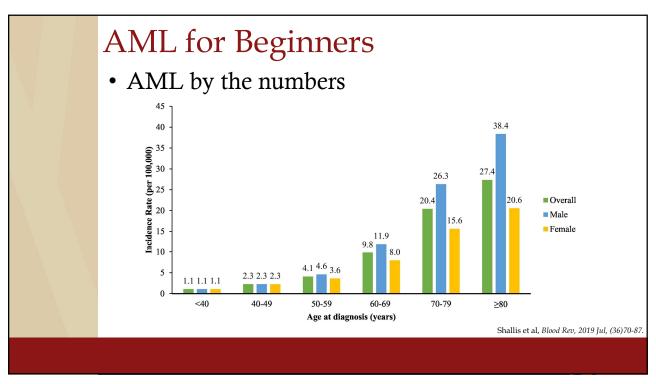


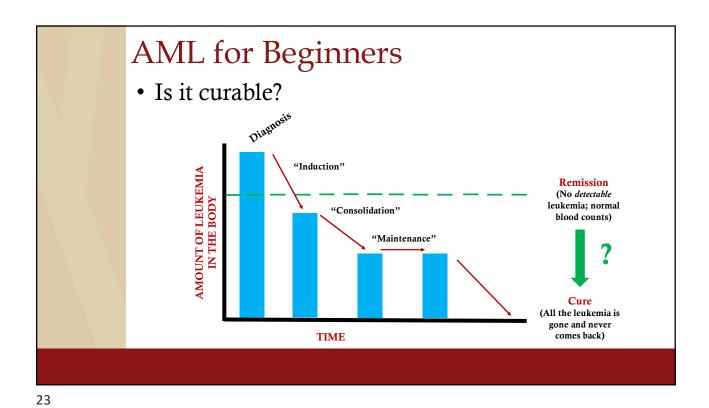
AML for Beginners • What is AML? Fever White cells **LEUKEMIA** Infection Your immune cells Help fight infection Anemia · Neutrophils are key **Fatigue LEUKEMIA** Red cells Trouble breathing • Oxygen-carrying cells Easy bruising **Platelets** LEUKEMIA Bleeding Help form clots and prevent bleeding



AML for Beginners • AML by the numbers 25,000 21,450 20,720 20,000 15,000 ■New cases 10,920 Deaths 10,000 8,990 5,930 5,000 3,930 1,500 1,140 AML ALL CML CLL Shallis et al, Blood Rev, 2019 Jul, (36)70-87.







AML for Beginners

• Is it curable?

AGE

GENETICS

If not curable, the goal is typically to live as well as possible, for as long as possible

Certain chromosome and gene changes are less likely to be curable

- What's my prognosis?
 - Disease biology
 - > Age
 - > Other health issues
 - Social determinants

25

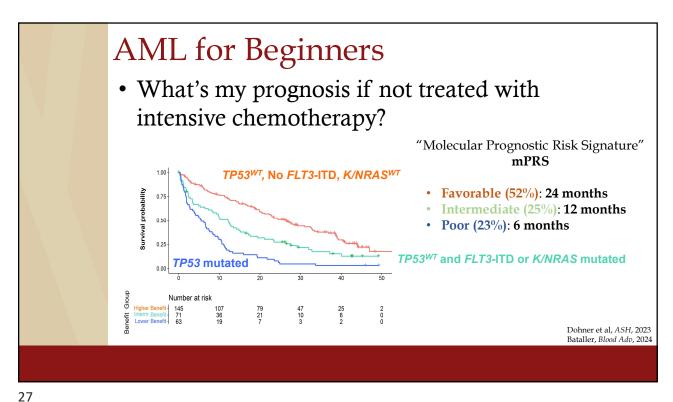
AML for Beginners • What's my prognosis? **Risk Category Genetic Abnormality** Potentially curable Favorable t(8;21)(q22;q22.1)/RUNX1::RUNX1T1 with intensive inv(16)(p13.1q22) or t(16;16)(p13.1;q22)/CBFB::MYH11 Mutated NPM1a without FLT3-ITD chemotherapy alone bZIP in-frame mutated CEBPA Mutated NPM1ª with FLT3-ITD Intermediate Wild-type NPM1 with FLT3-ITD ???? t(9;11)(p21.3;q23.3)/MLLT3::KMT2A Cytogenetic and/or molecular abnormalities not classified as favorable or adverse t(6;9)(p23;q34.1)/DEK::NUP214 Adverse Potentially curable t(v:11q23.3)/KMT2A-rearranged t(9;22)(q34.1;q11.2)/BCR::ABL1 only with transplant t(8;16)(p11;p13)/KAT6A::CREBBP after achieving inv(3)(q21.3q26.2) or t(3;3)(q21.3;q26.2)/GATA2,MECOM(EVI1) remission t(3q26.2;v)/MECOM(EVI1)-rearranged -5 or del(5q); -7; -17/abn(17p) Complex karyotype, monosomal karyotype

Mutated ASXL1, BCOR, EZH2, RUNX1, SF3B1, SRSF2, STAG2, U2AF1, or ZRSR2

Mutated TP53

26

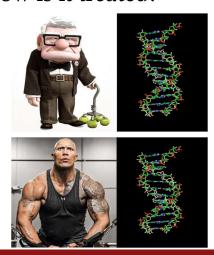
Khoury et al, Leukemia, 2022



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AML for Beginners • How is it treated? FIT UNFIT CURABLE INCURABLE ACTIONABLE NO ACTIONABLE TARGET

• How is it treated?



Lower intensity treatment

- Fewer potential side effects
- Mostly outpatient treatment
- Repeat cycles every month until it stops working
- Consideration of bone marrow (aka stem cell transplant) in a select few

Higher intensity treatment

- · More potential side effects
- Usually ~1 month in the hospital
- Generally only up to 3-4 cycles of treatment
- Consideration of bone marrow (aka stem cell) transplant in most patients

29

AML for Beginners

- What to expect with treatment
 - · Low red blood cells (anemia)
 - Low platelets
 - · Low white blood cells
 - Nausea / Diarrhea / Constipation
 - Fatigue
 - · Hair loss
 - Anxiety / Depression
 - · Fertility issues
 - · Frequent blood draws
 - Bone marrow biopsies



Frequent blood and platelet transfusions



Preventative antibacterial, antiviral, antifungal medications



Supportive medications, Palliative Care/Symptom Management referral, Fertility specialists



PICC line or Port placement

• What can I do on my own to maximize my chances of success during treatment?

Stay active!



31

AML for Beginners

• What can I do on my own to maximize my chances of success during treatment?

Eat!



• What can I do on my own to maximize my chances of success during treatment?

Train your brain!



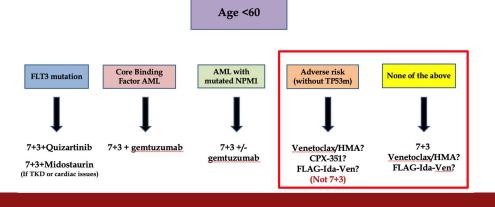
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AML for Beginners

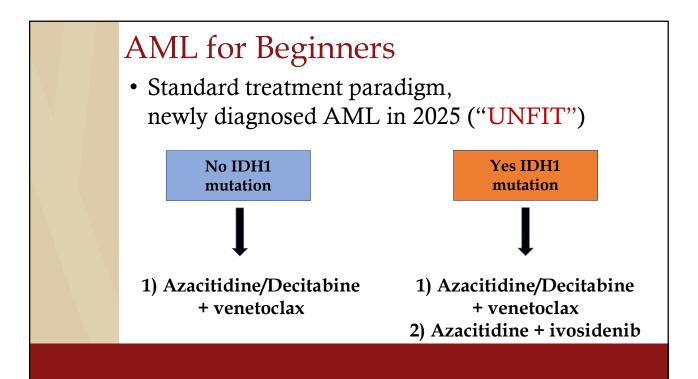
- What else should I be asking?
 - What is the standard treatment, and what alternatives are there?
 - If the initial treatment does not work, do I have back-up options?
 - Can I get a second opinion?
 - What clinical trials available?



• Standard treatment paradigm, newly diagnosed AML in 2025 ("FIT")



35



- What if my leukemia comes back or doesn't respond to initial treatment?
 - 1) Test for targetable mutations
 - FLT3
 - IDH
 - NPM1 / KMT2A
 - 2) Check for clinical trial availability
 - 3) Change mechanism

37

Cool New Stuff in AML!

Cool New Stuff in AML!

- Paradigm shift?
- All oral treatment?
- Menin inhibitors
- Triplets
- Novel cell therapy approaches

39

Paradigm Shift?

PARADIGM: A Phase 2 Randomized Study Comparing Venetoclax and Azacitidine to Induction Chemotherapy for Newly Diagnosed Fit Adults with Acute Myeloid Leukemia

DF/HCC SITES:

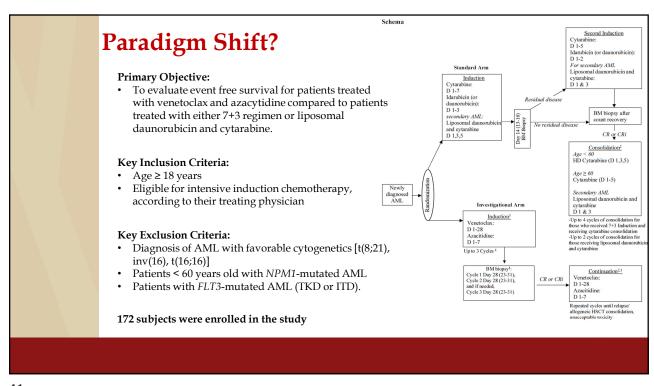
Massachusetts General Hospital - (Lead Site and Coordinating Center)

Beth Israel Deaconess Medical Center

Dana Farber Cancer Institute

OTHER SITES:

City of Hope National Medical Center
Levine Cancer Institute/Atrium Healthcare
Ohio State University Comprehensive Cancer Center
University of California Davis Comprehensive Cancer Center
University of Pennsylvania Abramson Cancer Center
Stanford Cancer Institute, Stanford University



Paradigm Shift?

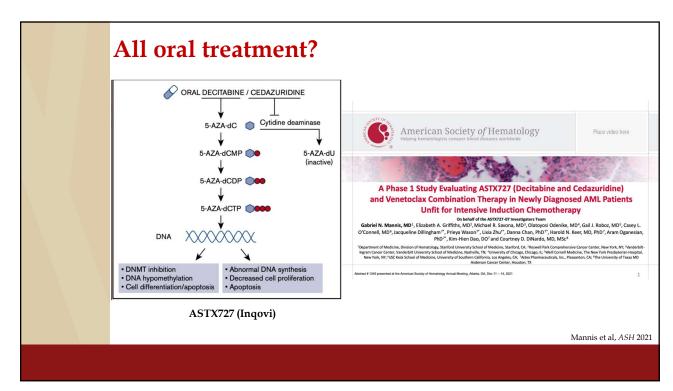
Secondary Objectives:

- · 30-day and 60-day mortality
- The proportion of patients receiving stem cell transplantation (SCT) following induction
- Quality of life, mood, symptom burden, coping, and patients post-traumatic stress disorder as assessed by:
 - Functional Assessment of Cancer Therapy-Leukemia (FACT-Leuk)
 - Hospital Anxiety and Depression Scale (HADS)
 - Edmonton Symptom Assessment Scale (ESAS)
 - Post-Traumatic Stress Disorder Checklist (PCL) Civil Version

Secondary Objectives (Continued):

- Healthcare Utilization:
 - Days alive and spent out of the hospital
 - Number of hospital days
 - · Number of hospitalizations
 - Emergency department (ED) visits
 - Admission to the ICU
 - Days in the ICU
- Overall cost of care: To cover first 6 months, excluding period of transplantation for patients who proceed to transplant.
- Incidence of neutropenic fever or neutropenic infections

Preliminary results expected later this year





#6504

An All-Oral Regimen of Decitabine-Cedazuridine Plus Venetoclax in Patients With Newly Diagnosed Acute Myeloid Leukemia Ineligible for Intensive Induction Chemotherapy: Results From a Phase 2 Cohort of 101 Patients

Amer M. Zeidan,¹ Elizabeth A. Griffiths,² Courtney D. DiNardo,³ Gabriel N. Mannis,⁴ Pau Montesinos,⁵ Montserrat Arnan,⁶ Michael R. Savona,ⁿ Olatoyosi Odenike,⁶ James K. McCloskey,⁶ Harsh V. Amin,¹⁰ Amir T. Fathi,¹¹ Teresa Bernal del Castillo,¹² Gabriela Rodríguez-Macías,¹³ Jane Liesveld,¹⁴ Annie P. Im,¹⁵ Aram Oganesian,¹⁶ Qing Xu,¹⁶ Margit Dijkstra,¹⁶ Harold Keer,¹⁶ Gail J. Roboz¹⊓

¹Yale University, New Haven, CT, USA; ²Roswell Park Comprehensive Cancer Center, Buffalo, NY, USA; ³The University of Texas MD Anderson Cancer Center, Houston, TX, USA; ⁴Stanford University School of Medicine, Stanford, CA, USA; ⁵Hospital Universitari i Politecnic La Fe, Valencia, Spain; ⁶ICO l'Hospitalet - Hospital Duran i Reynals, Barcelona, Spain; ⁷Vanderbilt-Ingram Cancer Center, Vanderbilt University School of Medicine, Nashville, TN, USA; ⁸The University of Chicago Medicine and Comprehensive Cancer Center, Chicago, IL, USA; ⁹Hospital Research, Boca Raton, FLI, USA; ⁹Hospital Universitario Central de Asturias/Instituto Universitario del Principado de Asturias (ISPA)/Instituto Universitario del Principado de Asturias (ISPA)/Instituto Universitario del Principado de Asturias (ISPA)/Instituto Universitario Central de Asturias (IUOPA), Oviedo, Spain; ¹³Hospital General Universitario Gregorio Marañon, Madrid, Spain; ¹⁴University of Rochester Medical Center, Rochester, NY, USA; ¹⁵University of Pittsburgh/UPMC Hillman Cancer Center, Pittsburgh, PA, USA; ¹⁶Taiho Oncology, Inc., Pleasanton, CA, USA; ¹⁷Weill Cornell Medicine, New York-Presbyterian Hospital, New York, NY, USA

All oral treatment?

- 101 patients treated
- Median age of 78
- Composite remission rate ~65%
- Of patients achieving remission, ~75% remained in remission 1 year later

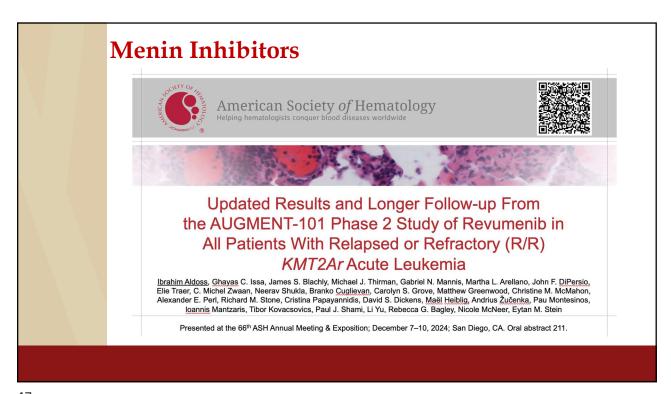
Zeidan et al, ASCO 2025

45

Menin Inhibitors

November 15, 2024

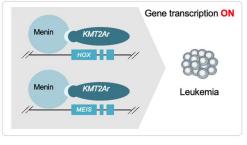
Syndax Announces FDA Approval of Revuforj® (revumenib), the First and Only Menin Inhibitor to Treat Adult and Pediatric Patients with Relapsed or Refractory Acute Leukemia with a KMT2A Translocation



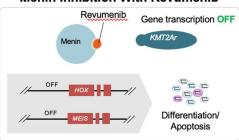
Menin Inhibitors

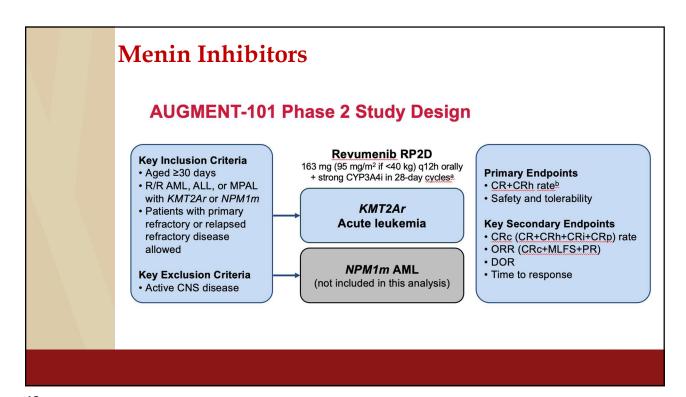
 Revumenib is an oral, small molecule menin inhibitor that disrupts menin-KMT2A interactions

KMT2Ar Acute Leukemia



Menin Inhibition With Revumenib

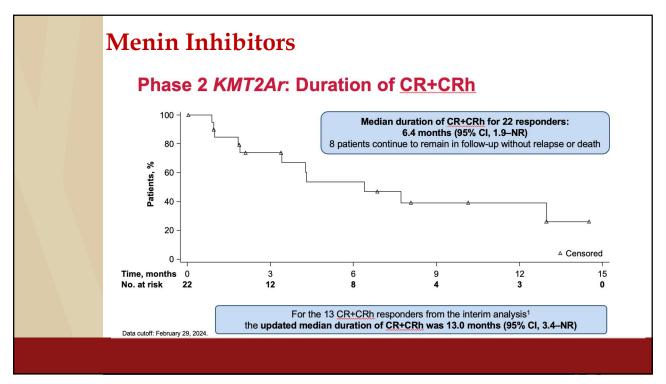




Menin Inhibitors Phase 2 KMT2Ar: Baseline Characteristics **Efficacy population** Safety population **Parameter** (n=97)a (N=116)b Leukemia type, n (%) AML 95 (81.9) 78 (80.4) ALL 13 (13.4) 15 (12.9) MPAL/other 6 (6.2) 6 (5.2) Co-mutations, n (%)c FLT3-ITD 7 (6.0) 5 (5.2) FLT3-TKD 2 (2.1) 3 (2.6) 12 (12.4) RAS 12 (10.3) **TP53** 5 (5.2) 5 (4.3) Primary refractory, n (%) 19 (19.6) 20 (17.2) No. of prior lines of therapy, median (range) 2 (1-11) 2 (1-11) 51 (44.0) ≥3, n (%) 41 (42.3) Prior venetoclax, n (%) 62 (63.9) 73 (62.9) Prior HSCT, n (%) 59 (50.9) 46 (47.4)

Menin Inhibitors Phase 2 KMT2Ar: Revumenib Efficacy **Efficacy population Efficacy population Parameter Parameter** (n=97)a (n=97)a Best response, n (%) ORR, n (%) 62 (63.9) CR 15 (15.5) CR+CRh rate, n (%) 22 (22.7) CRh 7 (7.2) 95% CI 14.8-32.3 CRi 2 (2.1) CRc, n (%) 41 (42.3) CRp 17 (17.5) **MLFS** 20 (20.6) 95% CI 32.3-52.7 PR 1 (1.0) Negative MRD status, n (%)b PD 7 (7.2) CR+CRh 11/18 (61.1) No response 21 (21.6) CRc 21/36 (58.3) Other[©] 7 (7.2) Data cutoff: February 29, 2024. All patients who have received ≥1 dose of revumenib, have been centrally confirmed for KMT2Ar acute leukemia, and have ≥5% blasts in bone marrow at baseline. MRD done locally; not all patients had MRD status reported. Includes patients without postbaseline disease assessment.

51



Menin Inhibitors

- Revumenib now approved for relapsed/refractory KMT2A-r leukemia;
 NPM1 approval likely coming soon
- Several other menin inhibitors already in development (ziftomenib, bleximenib, enzomenib)
- Highly active class of drugs, short duration of response as monotherapy (best used as bridge to transplant)
- Combination strategies in both the newly diagnosed and relapsed/refractory settings may increase response rates, response duration
- Differentiation syndrome, EKG changes, gastrointestinal toxicity, and low blood counts are the key side effects; newer generations of these drugs may mitigate some of these issues

53

Triplets I was a second of the control of the cont

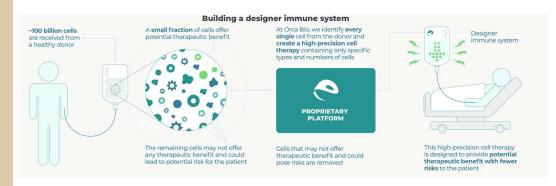
Triplets: Can we improve on Ven/Aza?

- How to avoid being just a "third wheel"
 - Single agent activity
 - Synergizes with ven and/or aza
 - Agnostic to type of AML
 - Targets known resistance mechanisms
 - Does not add significant side effects
 - Easy to take/administer

55

Triplets: Can we improve on Ven/Aza? Azacitidine, Venetoclax, and Gilteritinib in Newly Diagnosed and Relapsed or Refractory FLT3-Mutated AML Authors: Nicholas J. Short, MD © D., Naval Daver, MD © , Courtney D. Dinardo, MD © , Taxan Kada, MD © , Lewis E. Nasz, MD, MSc © , Walid Macaron, MD, MSc, Mura Yilmaz, MD ... SHOW ALL ... and Esthad Revands, MD © ANTHORS, INFO. & AFFILIATIONS Publication: Journal of Clinical Oncology • Volume 42, Number 13 • https://doi.org/10.1200/JCO.23.01911 A Phase Ib/II Study of Ivosidenib with Venetoclax ± Azacitidine in IDHI-Mutated Myeloid Malignancies Curtis A. Lachowiez ©; Sanam Loghavi ©; Zhihong Zeng ©; Tomoyuki Tanaka ©; Yi June Kim ©; Hidelaka Uryu ©; Swen Turkaj ©; Nela Ageer Jakobsen ©; Martise R. Luskin ©; Dafa Y. Douse ©; Rebocca SS; Träwell ©; Nelodas J. Short ©; Gautam Borchaisez °, Tiapam M. Kadia °, Lucia Masarova °, George D. Tippet ©; Pridhvraj Bose °, Elias J. Jabbour ©; Fartisa Rawandi ©; Naval G. Daver ©; Guildemo Garcia-Manero ©; Hapop Kantarjan ©; Jacqueline S. Garcia ©; Paresh Vyas ©; Kochi Tashahabi °, Marriar Konopleva °, Courtiny D. DiNardo © © 616.ACUTE MYELOID LEUKEMIAS: INVESTIGATIONAL DRUG AND CELLULAR THERAPIES | NOVEMBER 5, 2024 Phase I/II Study of the All-Oral Combination of Revumenib (SNDX-5613) with Decitabine/Cedazuridine (ASTX727) and Venetoclax (SAVE) in R/R AML Ghavas C. Issa, Branko Cuglievan, Naval Daver, Courtney D. DiNardo, Aziz Farhat, Nicholas I, Short, David McCall, Allison Pike, Sheila Tan. Brianna Kammerer, Aimee Marshal, Musa Yilmaz, Tapan M. Kadia, Naveen Pemmaraju, Maro Ohanian, Hussein A. Abbas, Abhishek Maiti, Alexandre Bazinet, Elias Jabbour, Koji Sasaki, Gautam Borthakur, Guillermo Montalban-Bravo, Nitin Jain, Yesid Alvarado Valero, Farhad Ravandi, Guillermo Garcia-Manero, Michael Andreeff, Hagop M. Kantarjian PRESENTATION ID S139 TUSCANY STUDY OF SAFETY AND EFFICACY OF TUSPETINIB PLUS STANDARD OF CARE VENETOCLAX AND AZACITIDINE IN STUDY PARTICIPANTS WITH NEWLY DIAGNOSED AML INELIGIBLE FOR INDUCTION CHEMOTHERAPY

Novel cell therapy approaches: Transplant



"Engineered" stem cell product may be able to remove cells responsible for causing graft versus host disease (GVHD) without compromising the power of the donor immune system

57

Novel cell therapy approaches: Transplant

Orca Bio Announces Positive Results from the Pivotal Phase 3 Study of Investigational Orca-T® Compared to Allogeneic Stem Cell Transplant for the Treatment of Hematologic Malignancies

Precision-T study met the primary endpoint of a statistically significant improvement in survival free of moderate-to-severe chronic graft versus host disease (cGvHD), showing 78% with Orca-T versus 38% with conventional allogeneic stem cell transplant (alloHSCT) at one year (HR 0.26, p<0.00001)

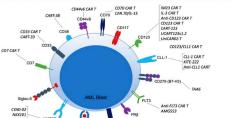
Overall survival with Orca-T was 94% compared to 83% with alloHSCT at one year, and the cumulative incidence of moderate-to-severe cGvHD was 13% versus 44%, respectively

"Engineered" stem cell product may be able to remove cells responsible for causing graft versus host disease (GVHD) without compromising the power of the donor immune system

Novel cell therapy approaches: CAR T cells

Antigen Targets for Myeloid Malignancies

- CD123: Expressed on 95% of leukemic stem cells on ~80% AML and also present in MDS and MPN
- CLL1: C-type lectin-like receptor expressed on up to 92% blasts and 45% leukemic stem cells in >85% AML patients
- CD33: Expressed in ~90% of leukemic stem cells in 85% of AML cases
- CD70: TNF-alpha family protein expressed on >75% leukemic blast and stem cells in 85% of AML patients but not on normal hematopoietic tissue



- Need to kill AML cells but preserve normal white blood cells
- Unclear if a suitable target antigen exists in AML

MOFFITT W

Marvin-Peek. Cancers. 2022. Schorr. Front Immunol. 2022

Slide courtesy of Hany Elmariah

59

Novel cell therapy approaches: CAR T cells

Disease	Interventions	Identifier ID	Phase	Location
AML	CD123/CLL1 CAR T cells	NCT03631576	II/III	Fujian Medical University Union Hospital, China
	CLL-1, CD33 and/or CD123 CAR T cells	NCT04010877	1/11	Shenzhen Geno-Immune Medical Institute China
	CD123 CAR T cells	NCT03796390	1	Hebei Yanda Ludaopei Hospital, China
	CD123 CAR T cells	NCT03585517	1	Xian Lu, China
	Muc1/CLL1/CD33/CD38/CD56/CD123 CAR T cells	NCT03222674	I/II	Zhujiang Hospital of Southern Medical University, Yunnan Cancer Hospital, Shenzhen Geno-immune Medical Institute China
	CD38/CD33/CD56/CD123/CD117 /CD133/CD34/Mucl CAR T cells	NCT03473457	N/A	Southern Medical University Zhujiang Hospital, China
	CD123 CAR T cells expressing EGFRt		3	Fengtai District, China
	CD44v6 CAR T cells	NCT04097301	I/II	IRCCS San Raffaele, IRCCS Ospedale Pediatrico Bambino Gesù, Italy
	CD33 CAR T cells	NCT03971799	I/II	The Children's Hospital of Philadelphia, USA
	Universal CD123 CAR T cells	NCT03190278	1	H. Lee Moffitt Cancer Center, Dana-Farbe Cancer Institute, Weill Medical College of Cornell University, MD Anderson Cancer Center, USA
	CD123 CAR T cells	NCT04014881	J	Union Hospital, Tongji Medical College, Huazhong University of Science and Technology, China
	CD123 CAR T cells	NCT03556982	I/II	307 Hospital of PLA, China
	CD123 CAR T cells expressing EGFRt	NCT02159495	1	City of Hope Medical Center, USA
	CD123 CAR T cells	NCT03766126	1	University of Pennsylvania, USA

 New "logic gated" (if/and) and "shielded" CAR T cell approaches hold promise but still not ready for prime time

Mardiana et al, Front Oncol 2020

AML Summary

- AML remains a very challenging disease, but...
- Significant progress has been made in the past few years, and...
- There is a lot more on the horizon in the coming years



61

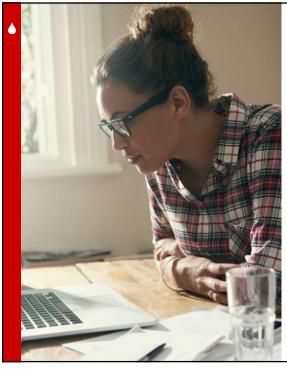
Thanks!

All of my patients and their families



Stanford Hematology

Caroline Berube Lawrence Leung Roni Brar Michaela Liedtke Steve Coutre Ravi Majeti Beth Martin Robert Diep Bita Fakhri Ann Mullaly Giselle Salmasi Peter Greenberg Jason Gotlib William Shomali David Iberri Tian Zhang



ASK A QUESTION

BREAKTHROUGHS AND PROGRESS: ACUTE MYELOID LEUKEMIA (AML)

Ask a question by phone:

Press star (*) then the number 1 on your keypad.

Ask a question by web:

Click "Ask a question" Type your question Click "Submit"

Due to time constraints, we can only take one question per person. Once you've asked your question, the operator will transfer you back into the audience line.



63

LLS EDUCATION & SUPPORT RESOURCES



HOW TO CONTACT US:

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Call: (800) 955-4572

Monday to Friday, 9 a.m. to 9 p.m. ET

Chat live online: www.LLS.org/InformationSpecialists

Monday to Friday, 10 a.m. to 7 p.m. ET **Email:** www.LLS.org/ContactUs



CLINICAL TRIAL SUPPORT CENTER

Work one-on-one with an LLS Clinical Trial Nurse Navigator who will help you find clinical trials and personally assist you throughout the entire clinical-trial process. Visit: www.LLS.org/Navigation



NUTRITION CONSULTATIONS Our registered dietitian has

expertise in oncology nutrition and provides free one-on-one consultations by phone or email. www.LLSNutrition.org





Online Chats

Online Chats are free, live sessions, moderated by oncology social workers. To register for one of the chats below, or for more information, please visit www.LLS.org/Chat

Education Videos

View our free education videos on disease, treatment, and survivorship. To view all patient videos, please visit www.LLS.org/EducationVideos

Patient Podcast

The Bloodline with LLS is here to remind you that after a diagnosis comes hope. To listen to an episode, please visit www.TheBloodline.org



65



