

Meet The Professor

Optimizing the Management of Acute Myeloid Leukemia and Myelodysplastic Syndromes

Tuesday, September 19, 2023

5:00 PM – 6:00 PM ET

Faculty

Naval Daver, MD

Moderator

Neil Love, MD

Commercial Support

This activity is supported by educational grants from Daiichi Sankyo Inc, Gilead Sciences Inc, and Taiho Oncology 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 companies: AbbVie Inc, Adaptive Biotechnologies Corporation, ADC Therapeutics, Agios Pharmaceuticals Inc, Alexion Pharmaceuticals, Amgen Inc, Array BioPharma Inc, a subsidiary of Pfizer Inc, Astellas, AstraZeneca Pharmaceuticals LP, Aveo Pharmaceuticals, Bayer HealthCare Pharmaceuticals, BeiGene Ltd, BeyondSpring Pharmaceuticals Inc, Blueprint Medicines, Boehringer Ingelheim Pharmaceuticals Inc, Bristol Myers Squibb, Celgene Corporation, Clovis Oncology, Coherus BioSciences, CTI BioPharma Corp, Daiichi Sankyo Inc, Eisai Inc, Elevation Oncology Inc, EMD Serono Inc, Epizyme Inc, Exact Sciences Corporation, Exelixis Inc, Five Prime Therapeutics Inc, Foundation Medicine, G1 Therapeutics Inc, Genentech, a member of the Roche Group, Genmab US Inc, Gilead Sciences Inc, Grail Inc, GSK, Halozyme Inc, Helsinn Healthcare SA, ImmunoGen Inc, Incyte Corporation, Ipsen Biopharmaceuticals Inc, Janssen Biotech Inc, administered by Janssen Scientific Affairs LLC, Jazz Pharmaceuticals Inc, Karyopharm Therapeutics, Kite, A Gilead Company, Kronos Bio Inc, Legend Biotech, Lilly, Loxo Oncology Inc, a wholly owned subsidiary of Eli Lilly & Company, MEI Pharma Inc, Merck, Mersana Therapeutics Inc, Mirati Therapeutics Inc, Natera Inc, Novartis, Novartis Pharmaceuticals Corporation on behalf of Advanced Accelerator Applications, Novocure Inc, Oncopeptides, Pfizer Inc, Pharmacyclics LLC, an AbbVie Company, Puma Biotechnology Inc, Regeneron Pharmaceuticals Inc, R-Pharm US, Sanofi, Seagen Inc, Servier Pharmaceuticals LLC, SpringWorks Therapeutics Inc, Stemline Therapeutics Inc, Sumitomo Dainippon Pharma Oncology Inc, Taiho Oncology Inc, Takeda Pharmaceuticals USA Inc, TerSera Therapeutics LLC, Tesaro, A GSK Company, TG Therapeutics Inc, Turning Point Therapeutics Inc, Verastem Inc, and Zymeworks Inc.

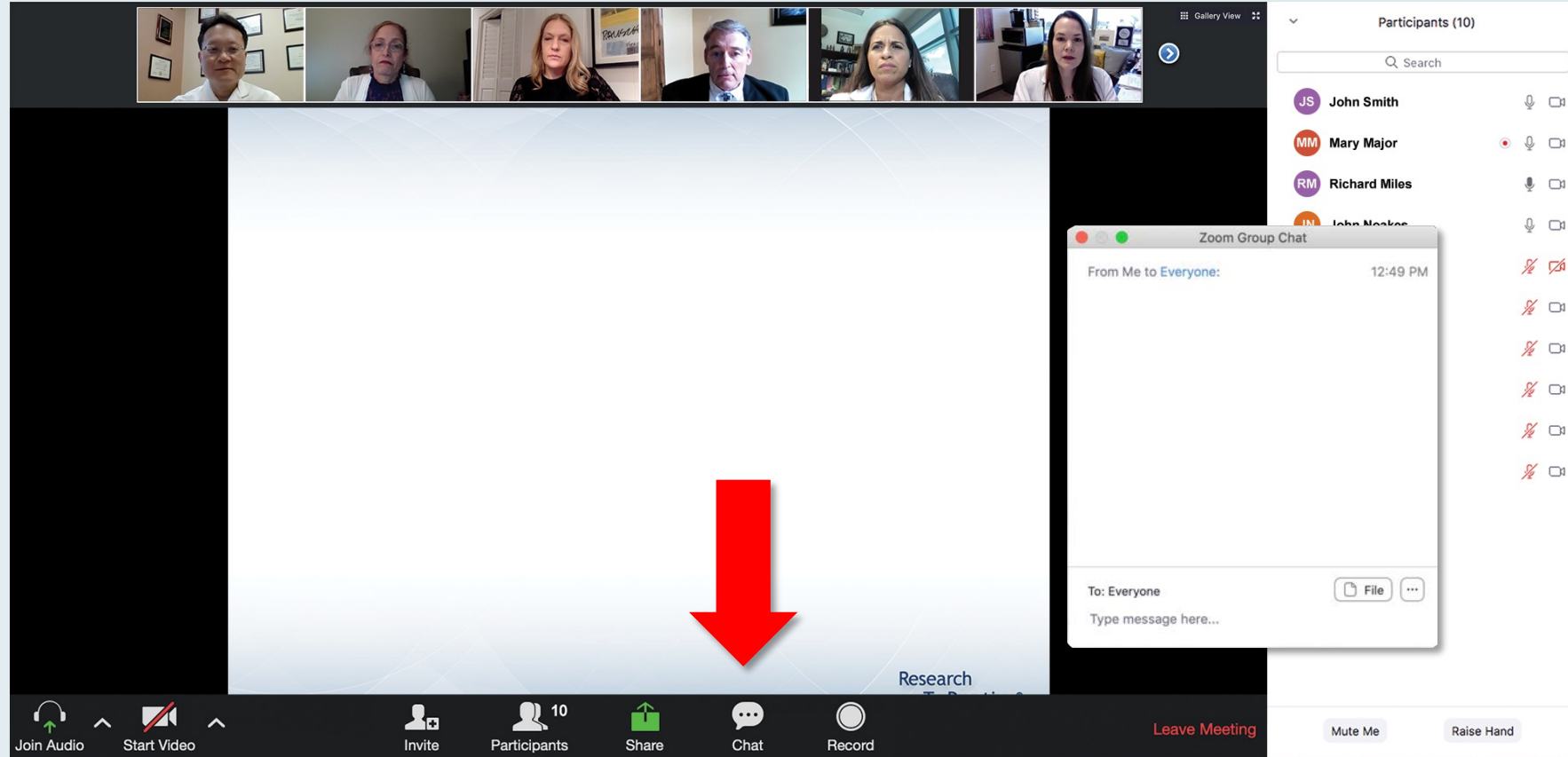
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Planners, scientific staff and independent reviewers for Research To Practice have no relevant conflicts of interest to disclose.

Dr Daver — Disclosures

Consulting Agreements	AbbVie Inc, Agios Pharmaceuticals Inc, Amgen Inc, Arog Pharmaceuticals Inc, Astellas, Bristol Myers Squibb, Celgene Corporation, Daiichi Sankyo Inc, Genentech, a member of the Roche Group, Gilead Sciences Inc, ImmunoGen Inc, Jazz Pharmaceuticals Inc, Kite, A Gilead Company, Menarini Group, Novartis, Pfizer Inc, Servier Pharmaceuticals LLC, Shattuck Labs, Stemline Therapeutics Inc, Syndax Pharmaceuticals Inc, Trillium Therapeutics Inc
Contracted Research	AbbVie Inc, Amgen Inc, Astellas, Bristol Myers Squibb, Daiichi Sankyo Inc, Fate Therapeutics, Genentech, a member of the Roche Group, Gilead Sciences Inc, GlycoMimetics Inc, Hanmi Pharmaceutical, ImmunoGen Inc, Kite, A Gilead Company, NovImmune SA, Pfizer Inc, Servier Pharmaceuticals LLC, Trillium Therapeutics Inc, Trovogene

We Encourage Clinicians in Practice to Submit Questions



Feel free to submit questions now before the program begins and throughout the program.

Familiarizing Yourself with the Zoom Interface

Expand chat submission box

The screenshot displays a Zoom meeting interface. At the top, there's a header bar with participant names: RTP Coordinat..., Kirsten Miller, RTP Mike Rivera, and Lisa Suarez. Below this, a slide titled "Meet The Professor Program Participating Faculty" is shown. The slide lists six faculty members with their photos and titles:

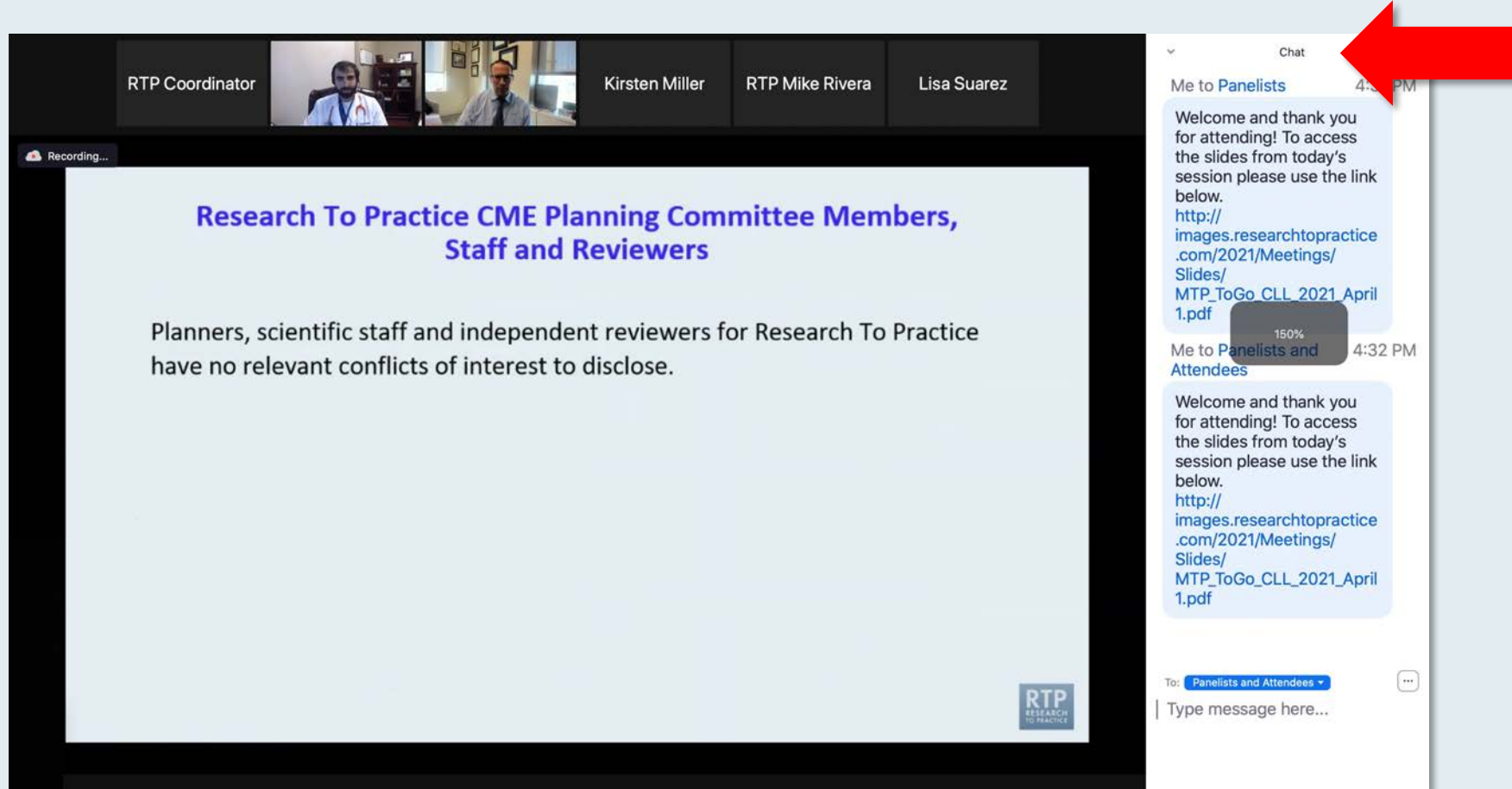
- Nancy L Bartlett, MD**
Professor of Medicine
Koman Chair in Medical Oncology
Washington University School of Medicine
St Louis, Missouri
- Jonathan W Friedberg, MD, MMSc**
Samuel E Durand Professor of Medicine
Director, James P Wilmot Cancer Institute
University of Rochester
Rochester, New York
- Carla Casulo, MD**
Associate Professor of Medicine
Division of Hematology/Oncology
Director, Hematology/Oncology Fellowship Program
University of Rochester
Wilmot Cancer Institute
Rochester, New York
- Brian T Hill, MD, PhD**
Director, Lymphoid Malignancy Program
Cleveland Clinic Taussig Cancer Institute
Cleveland, Ohio
- Christopher R Flowers, MD, MS**
Chair, Professor
Department of Lymphoma/Myeloma
The University of Texas MD Anderson Cancer Center
Houston, Texas
- Brad S Kahl, MD**
Professor of Medicine
Washington University School of Medicine
Director, Lymphoma Program
Siteman Cancer Center
St Louis, Missouri

On the right side, a chat window is open. It shows two messages from "Me to Panelists" and "Me to Panelists and Attendees" at 4:31 PM and 4:32 PM respectively. The messages contain a welcome message and a link to a PDF file. At the bottom of the chat window, there's a "To:" dropdown menu set to "Panelists and Attendees" and a text input field labeled "Type message here...". A red arrow points to the white line above the text input field, indicating where to drag to expand the submission box.

Drag the white line above the submission box up to create more space for your message.

Familiarizing Yourself with the Zoom Interface

Increase chat font size



**Press Command (for Mac) or Control (for PC) and the + symbol.
You may do this as many times as you need for readability.**

Clinicians in the Audience, Please Complete the Pre- and Postmeeting Surveys

The screenshot shows a Zoom meeting window. At the top, a row of seven participant video thumbnails is visible. The main content area on the left displays a presentation slide with the following text:
Meet The Professionals
Optimizing the Selection and Timing of Therapy for Patients with Metastatic Gastrointestinal Cancer
Wednesday, August 25, 2022
5:00 PM – 6:00 PM EST
Faculty
Wells A Messersmith, MD
Moderator
Neil Love, MD
The RTP Research to Practice logo is in the bottom right corner of the slide. A 'Quick Survey' pop-up window is centered over the slide, listing several treatment combinations with radio button options. To the right of the main content area is a 'Participants (10)' sidebar showing a list of names with their respective status icons (mute, video on/off). At the bottom of the window is a standard Zoom toolbar with icons for Join Audio, Start Video, Invite, Participants, Share, Chat, Record, and a red 'Leave Meeting' button.

Meet The Professionals
Optimizing the Selection and Timing of Therapy for Patients with Metastatic Gastrointestinal Cancer
Wednesday, August 25, 2022
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Neil Love, MD
RTP
RESEARCH
TO PRACTICE

Quick Survey

- ☐ Certizomab +/- dexamethasone
- ☐ Pomalidomide +/- dexamethasone
- ☐ Certizomab + pomalidomide +/- dexamethasone
- ☐ Elotuzumab + lenalidomide +/- dexamethasone
- ☐ Elotuzumab + pomalidomide +/- dexamethasone
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- ☐ Daratumumab + pomalidomide +/- dexamethasone
- ☐ Daratumumab + bortezomib +/- dexamethasone
- ☐ Isaxomab + Rd
- ☐ Other

Submit

Participants (10)

- JS John Smith
- MM Mary Major
- RM Richard Miles
- JN John Noakes
- AS Alice Suarez
- JP Jane Perez
- RS Robert Stiles
- JF Juan Fernandez
- AK Ashok Kumar
- JS Jeremy Smith

Join Audio Start Video Invite Participants Share Chat Record Leave Meeting

The screenshot shows a Zoom meeting window. At the top, a row of seven participant video thumbnails is visible. The main content area on the left displays a presentation slide with the following text:
Regulatory and reimbursement issues aside, which treatment would you recommend for a 65-year-old patient with clear cell renal cell carcinoma (ccRCC) who has been on a TKI for 3 years and follow-up 3 years later is found to have asymptomatic (PS 0)?
1. Nivolumab/ipilimumab
2. Avelumab/axitinib
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4. Pembrolizumab/lenvatinib
5. Nivolumab/cabozantinib
6. Tyrosine kinase inhibitor (TKI) monotherapy
7. Anti-PD-1/PD-L1 monotherapy
8. Other
The RTP Research to Practice logo is in the bottom right corner of the slide. A 'Quick Poll' pop-up window is centered over the slide, listing the same eight options with radio button options. To the right of the main content area is a 'Participants (10)' sidebar showing a list of names with their respective status icons. At the bottom of the window is a standard Zoom toolbar with icons for Join Audio, Start Video, Invite, Participants, Share, Chat, Record, and a red 'Leave Meeting' button.

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Quick Poll

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ONCOLOGY TODAY

WITH DR NEIL LOVE

Novel Agents, Approaches and Strategies in the Management of Higher-Risk Myelodysplastic Syndromes



DR GUILLERMO GARCIA-MANERO
THE UNIVERSITY OF TEXAS MD ANDERSON CANCER CENTER



DR DAVID SALLMAN
MOFFITT CANCER CENTER



Practical Perspectives: Investigators Discuss Current Management and Actual Cases of Relapsed/Refractory Metastatic Colorectal Cancer

A CME/MOC-Accredited Virtual Event

Wednesday, September 20, 2023

5:00 PM – 6:00 PM ET

Faculty

Kristen K Ciombor, MD, MSCI

J Randolph Hecht, MD

Moderator

Neil Love, MD

Inside the Issue: Integrating Targeted and Immunotherapy into the Management of Localized Non-Small Cell Lung Cancer

A CME/MOC-Accredited Live Webinar

Thursday, September 21, 2023

5:00 PM – 6:00 PM ET

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Jamie E Chافت, MD

John V Heymach, MD, PhD

Moderator

Neil Love, MD

What Clinicians Want to Know About the Management of Relapsed/Refractory Mantle Cell Lymphoma

A CME/MOC-Accredited Virtual Event

Tuesday, September 26, 2023

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Faculty

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Brad S Kahl, MD

Moderator

Neil Love, MD

Meet The Professor

Optimizing the Management of Gastroesophageal Cancers

**Thursday, September 28, 2023
5:00 PM – 6:00 PM ET**

Faculty

Peter C Enzinger, MD

Moderator

Neil Love, MD

Inside the Issue: Optimizing the Management of Nonmelanoma Skin Cancer

A CME/MOC-Accredited Live Webinar

Tuesday, October 3, 2023

5:00 PM – 6:00 PM ET

Faculty

Nikhil I Khushalani, MD

Anna C Pavlick, DO, MBA

Moderator

Neil Love, MD

Join Us In Person or Virtually

Current Approaches and Future Strategies in Oncology

*A Multitumor Educational Symposium in Partnership
with Florida Cancer Specialists & Research Institute*

Saturday, October 7, 2023

ER-Positive Breast Cancer

7:15 AM – 8:15 AM ET

Faculty

**Harold J Burstein, MD, PhD
Komal Jhaveri, MD**

Prostate Cancer

8:15 AM – 9:15 AM ET

Faculty

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Oncology in the Real World

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Saturday, October 14, 2023

Lymphoma

**9:30 AM – 10:30 AM PT
(12:30 PM – 1:30 PM ET)**

Faculty

**Christopher R Flowers, MD, MS
Ann S LaCasce, MD, MMSc**

Urothelial Bladder Cancer and Renal Cell Carcinoma

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Guru P Sonpavde, MD**

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Gynecologic Cancers

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Robert Z Orlowski, MD, PhD**

HER2-Positive and Triple-Negative Breast Cancer

**3:50 PM – 4:50 PM PT
(6:50 PM – 7:50 PM ET)**

Faculty

**Sara A Hurvitz, MD, FACP
Heather McArthur, MD, MPH**

**Moderator
Neil Love, MD**

Thank you for joining us!

CME and MOC credit information will be emailed to each participant within 5 business days.

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Naval Daver, MD

Director, Leukemia Research Alliance Program

Professor

Department of Leukemia

The University of Texas MD Anderson Cancer Center

Houston, Texas

Meet The Professor Program Participating Faculty



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Director, Leukemia Research Alliance Program
Professor
Department of Leukemia
The University of Texas
MD Anderson Cancer Center
Houston, Texas



Richard M Stone, MD

Lunder Family Chair in Leukemia
Chief of Staff
Dana-Farber Cancer Institute
Professor of Medicine
Harvard Medical School
Boston, Massachusetts



Gail J Roboz, MD

Director, Clinical and Translational Leukemia Programs
Professor of Medicine
Weill Cornell Medical College
NewYork-Presbyterian Hospital
New York, New York

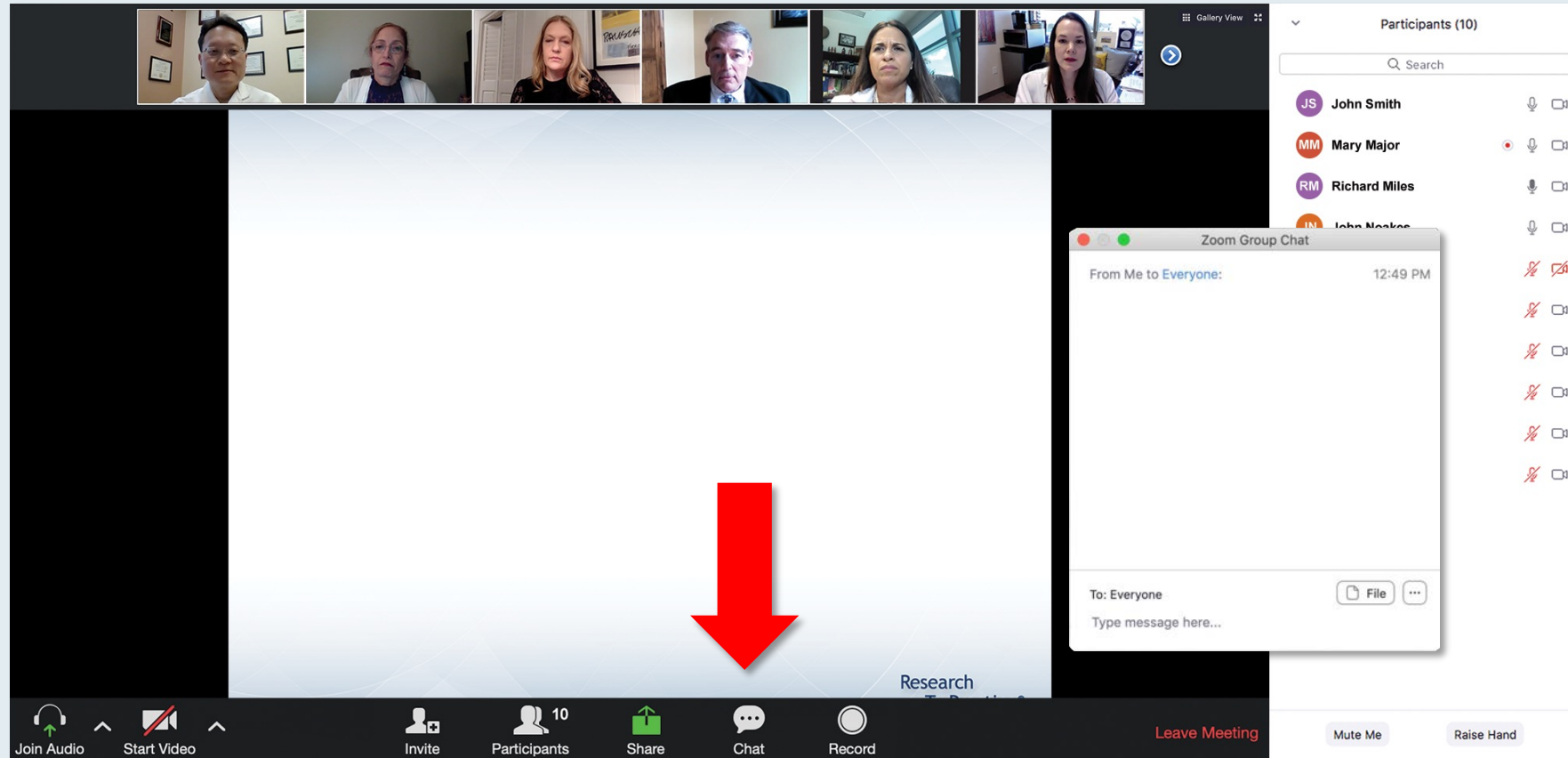


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Research To Practice
Miami, Florida

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- Other

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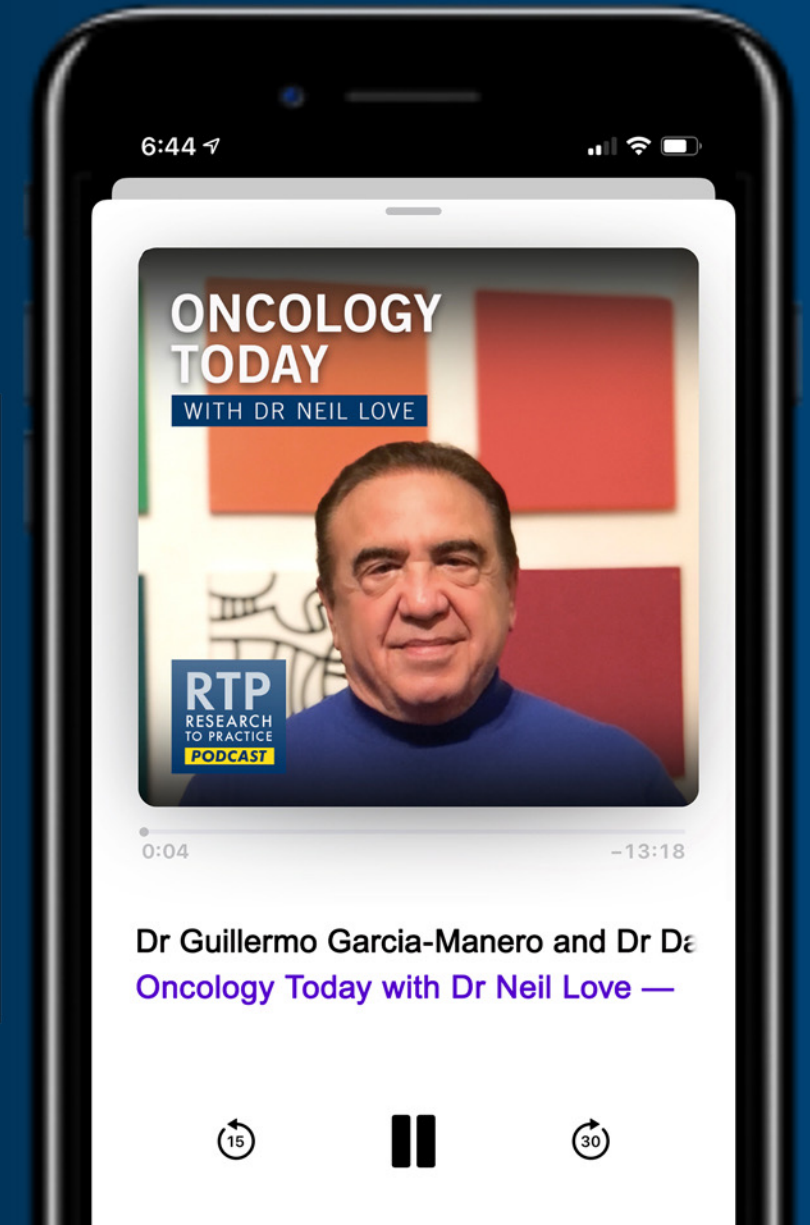
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Contracted Research	AbbVie Inc, Amgen Inc, Astellas, Bristol Myers Squibb, Daiichi Sankyo Inc, Fate Therapeutics, Genentech, a member of the Roche Group, Gilead Sciences Inc, GlycoMimetics Inc, Hanmi Pharmaceutical, ImmunoGen Inc, Kite, A Gilead Company, NovImmune SA, Pfizer Inc, Servier Pharmaceuticals LLC, Trillium Therapeutics Inc, Trovogene



Bhavana (Tina) Bhatnagar, DO
West Virginia University Cancer
Institute Schiffler Cancer Center
Wheeling, West Virginia



Anna Halpern, MD
Fred Hutch Cancer Center
Seattle, Washington



Rachel J Cook MD
Oregon Health and Science
University
Portland, Oregon



Amany R Keruakous, MD, MS
Georgia Cancer Center
Augusta University
Augusta, Georgia



Ranju Gupta, MD
Cancer Institute
Lehigh Valley Health Network
Bethlehem, Pennsylvania



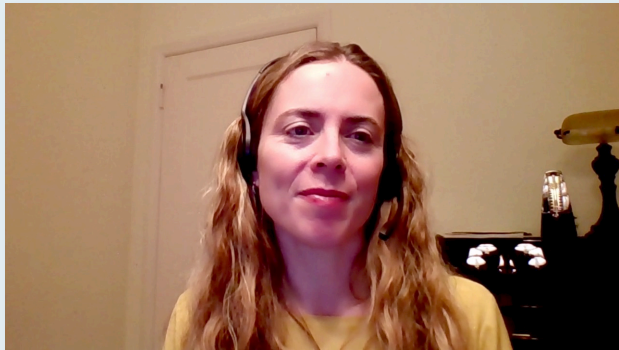
Khuda Dad Khan, MD, PhD
Norton Cancer Institute
Prospect, Kentucky



Neil Morganstein, MD
Atlantic Health System
Summit, New Jersey



Erik Rupard, MD
The Reading Hospital
West Reading, Pennsylvania



Rebecca L Olin, MD, MSCE
University of California, San Francisco
San Francisco, California

Meet The Professor with Dr Daver

INTRODUCTION: Biology, Classification, p53, Magrolimab

MODULE 1: Case Presentations

MODULE 2: Journal Club with Dr Daver

MODULE 3: Appendix

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INTRODUCTION: Biology, Classification, p53, Magrolimab

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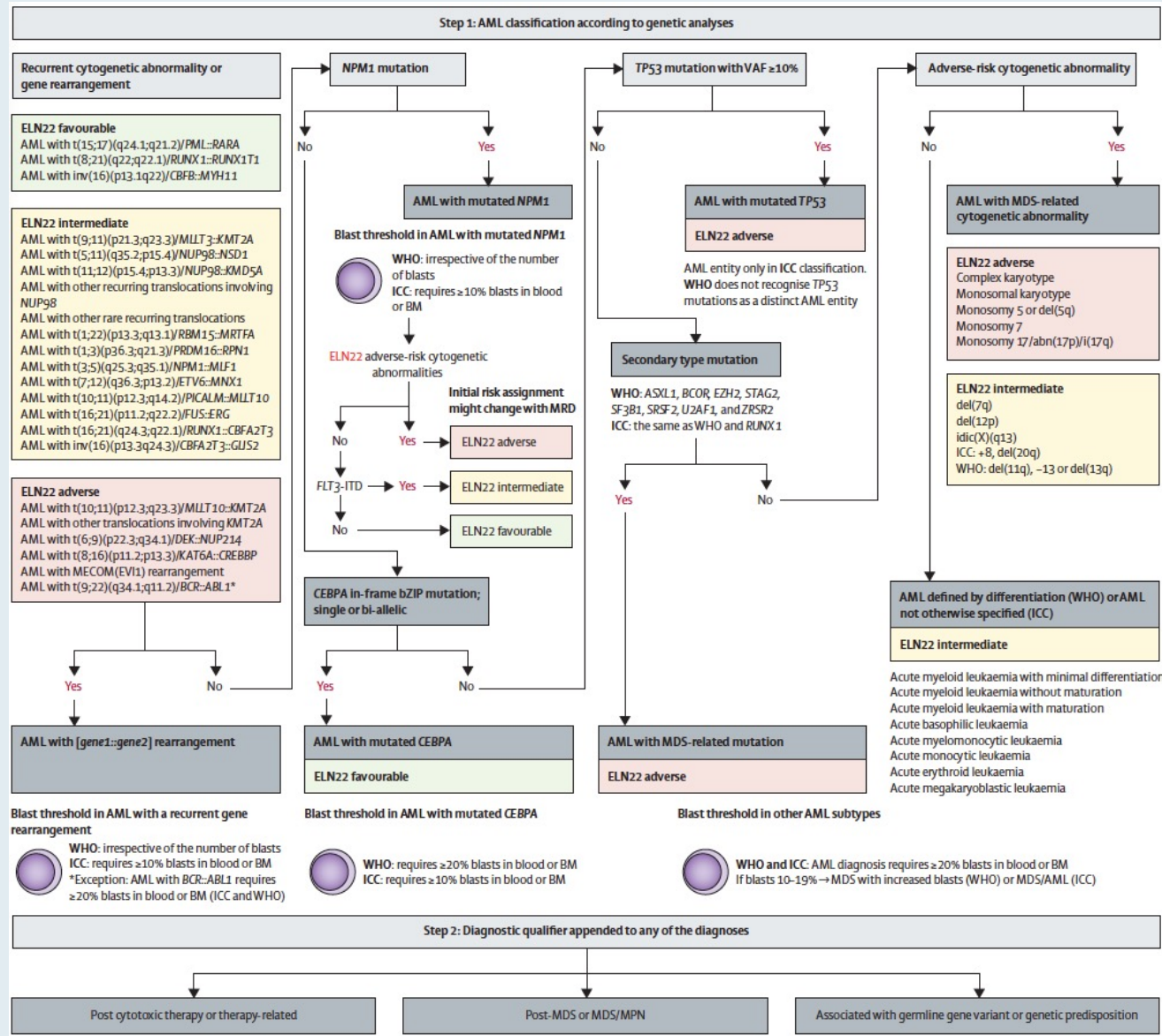
Standardising acute myeloid leukaemia classification systems: a perspective from a panel of international experts



Rory M Shallis, Naval Daver, Jessica K Altman, Rami S Komrokji, Daniel A Pollyea, Talha Badar, Jan P Bewersdorf, Vijaya R Bhatt, Stéphane de Botton, Adolfo de la Fuente Burguera, Hetty E Carraway, Pinkal Desai, Richard Dillon, Nicolas Duployez, Firas El Chaer, Amir T Fathi, Sylvie D Freeman, Ivana Gojo, Michael R Grunwald, Brian A Jonas, Marina Konopleva, Tara L Lin, Gabriel N Mannis, John Mascarenhas, Laura C Michaelis, Alice S Mims, Pau Montesinos, Olga Pozdnyakova, Keith W Pratz, Andre C Schuh, Mikkael A Sekeres, Catherine C Smith, Maximilian Stahl, Marion Subklewe, Geoffrey L Uy, Maria Teresa Voso, Roland B Walter, Eunice S Wang, Joshua F Zeidner, Andrius Žučenka, Amer M Zeidan

Lancet Haematol 2023;10(9):e767-76.

Current Unified Approach to the Classification of Acute Myeloid Leukemia





Contents lists available at [ScienceDirect](#)

Blood Reviews

journal homepage: www.elsevier.com/locate/issn/0268960X



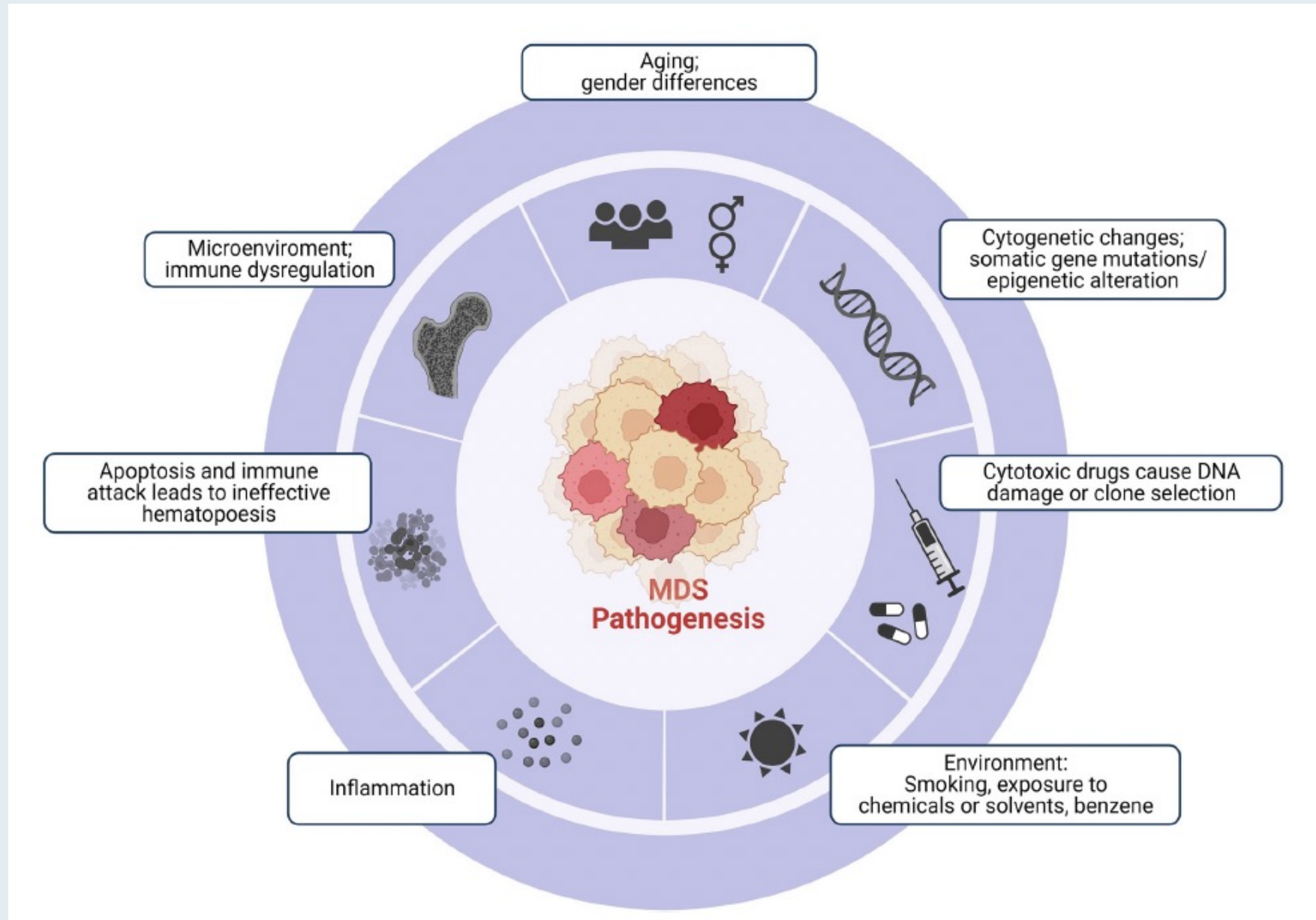
Review

Current landscape of translational and clinical research in myelodysplastic syndromes/neoplasms (MDS): Proceedings from the 1st International Workshop on MDS (iwMDS) Of the International Consortium for MDS (icMDS)

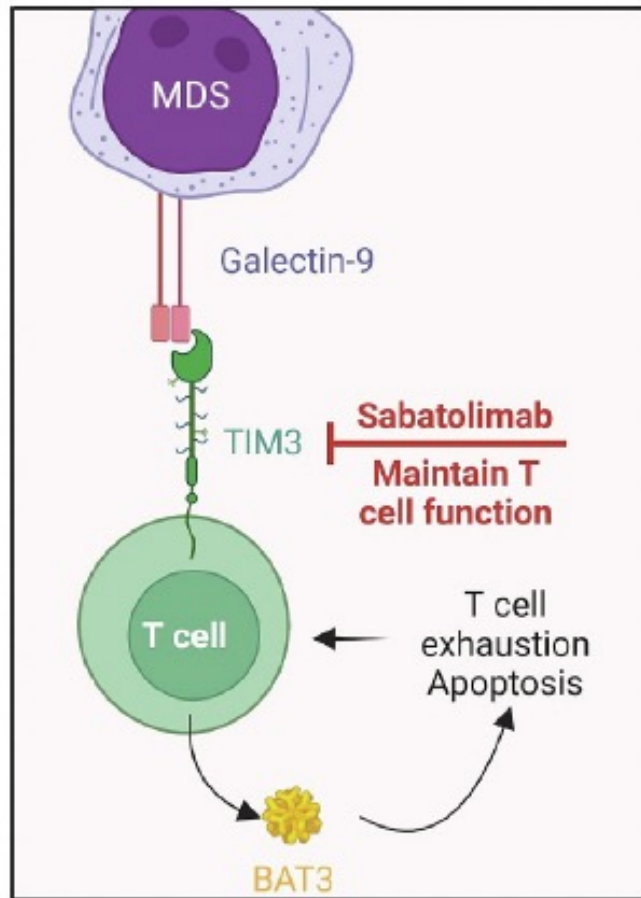
Jan Philipp Bewersdorf^a, Zhuoer Xie^b, Rafael Bejar^c, Uma Borate^d, Jacqueline Boultonwood^e, Andrew M. Brunner^f, Rena Buckstein^g, Hetty E. Carraway^h, Jane E. Churpekⁱ, Naval G. Daver^j, Matteo Giovanni Della Porta^k, Amy E. DeZern^l, Pierre Fenaux^m, Maria E. Figueroaⁿ, Steven D. Gore^o, Elizabeth A. Griffiths^p, Stephanie Halene^q, Robert P. Hasserjian^r, Christopher S. Hourigan^s, Tae Kon Kim^t, Rami Komrokji^b, Vijay K. Kuchroo^u, Alan F. List^v, Sanam Loghavi^w, Ravindra Majeti^x, Olatoyosi Odenike^y, Mrinal M. Patnaik^z, Uwe Platzbecker^{aa}, Gail J. Roboz^{ab}, David A. Sallman^b, Valeria Santini^{ac}, Guillermo Sanz^{ad,ae,af}, Mikkael A. Sekeresⁿ, Maximilian Stahl^{ag}, Daniel T. Starczynowski^{ah}, David P. Steensma^{ai}, Justin Taylorⁿ, Omar Abdel-Wahab^a, Mina L. Xu^{aj}, Michael R. Savona^t, Andrew H. Wei^{ak}, Amer M. Zeidan^{q,*}

Blood Rev 2023;60:101072

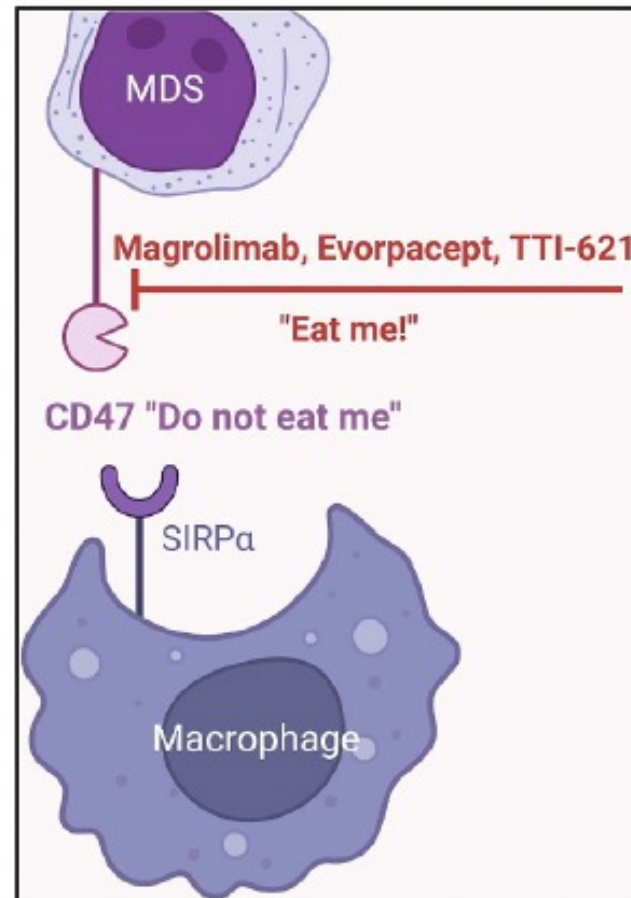
Overview of Myelodysplastic Syndromes Pathophysiology



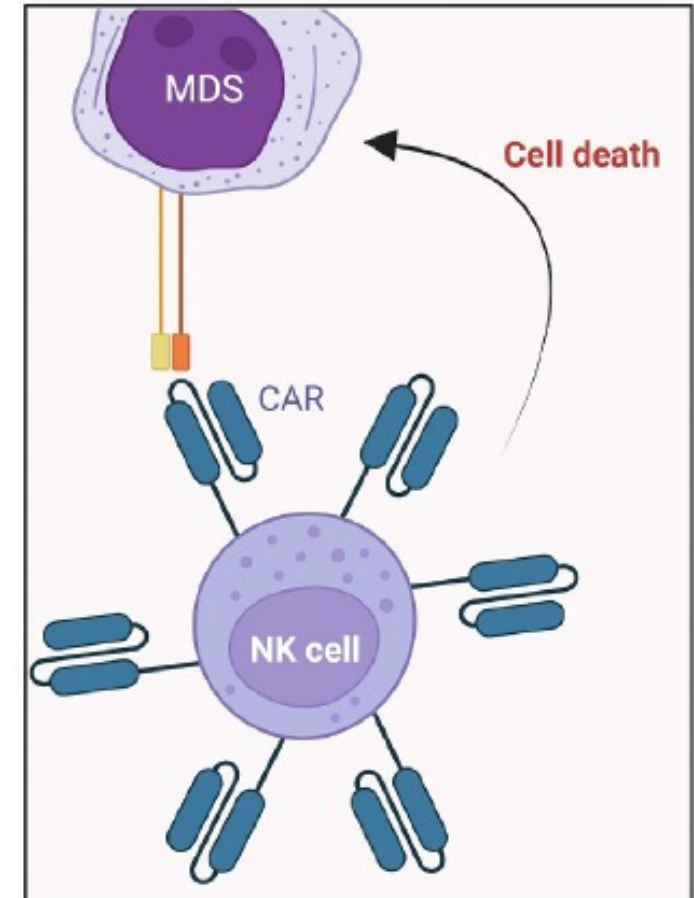
Novel Immunotherapy Targets for Myelodysplastic Syndromes (MDS)



1) Engage T cells

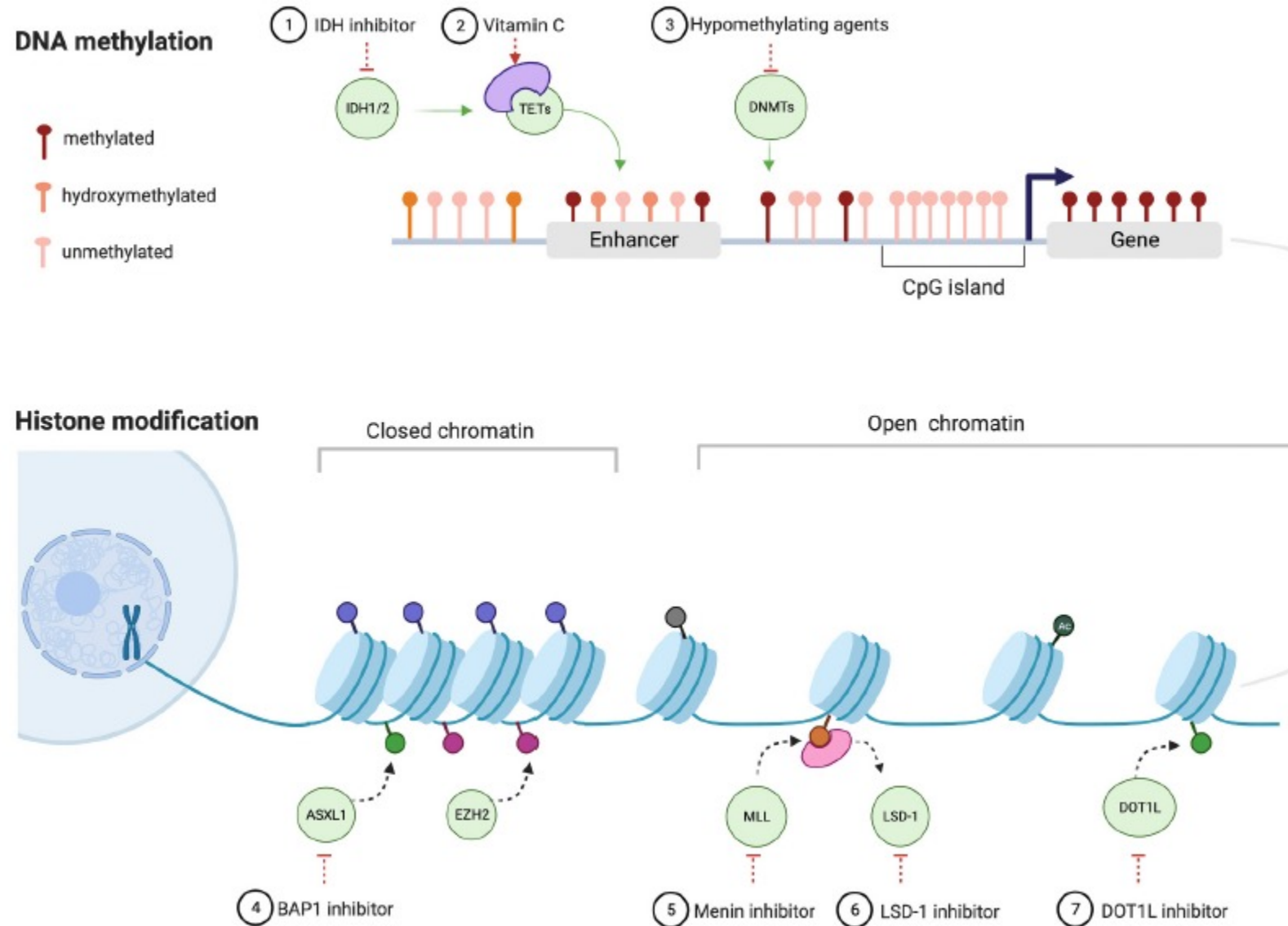


2) Engage macrophages



3) Engage NK cells

Epigenetic Therapeutics for MDS



Case Presentation: 70-year-old man with TP53-mutant AML-MRC with complex cytogenetics, s/p CPX-351; azacitidine/venetoclax, now in palliative care



Dr Anna Halpern (Seattle, Washington)

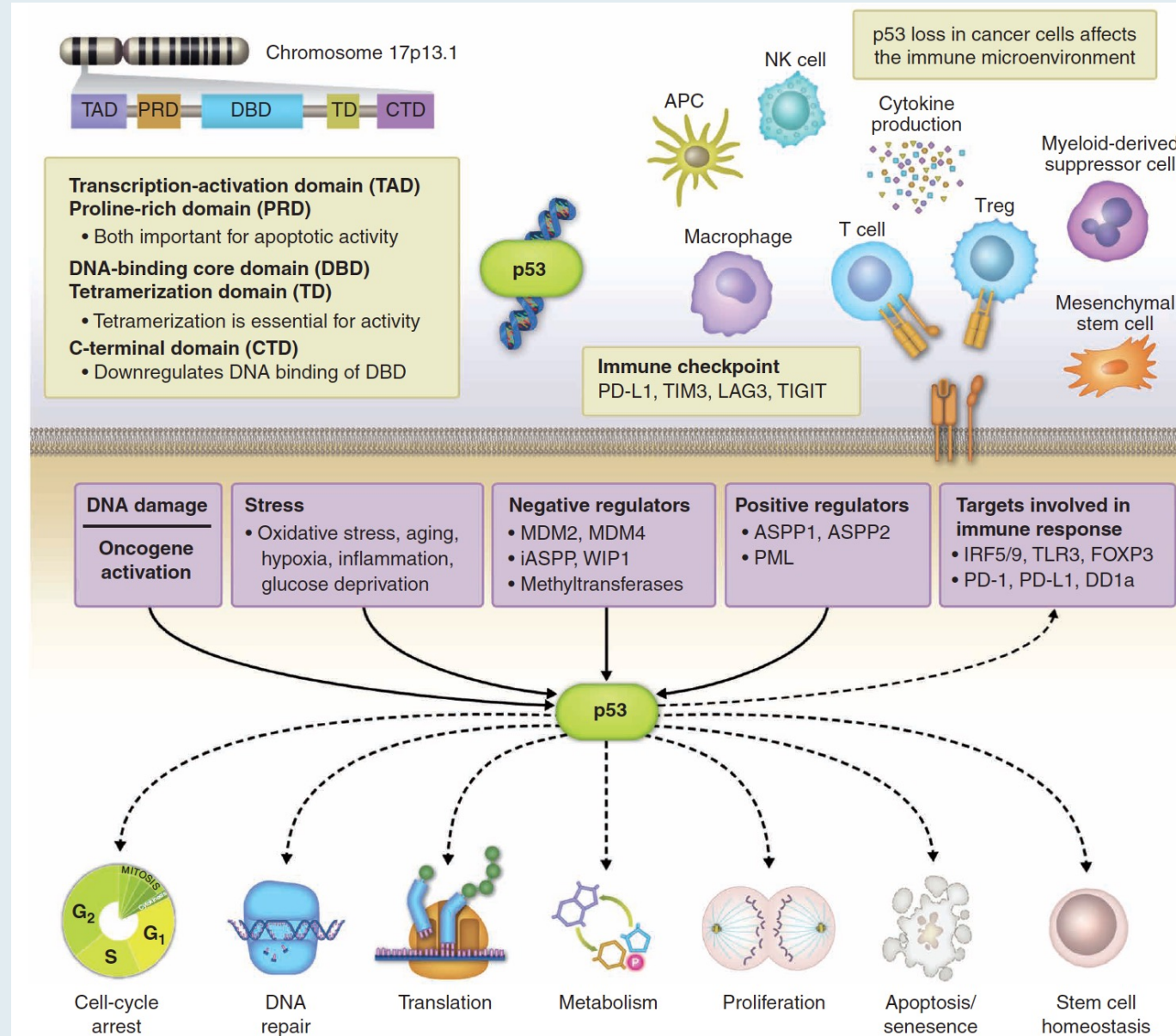
REVIEW

***TP53*-Mutated Myelodysplastic Syndrome and Acute Myeloid Leukemia: Biology, Current Therapy, and Future Directions**

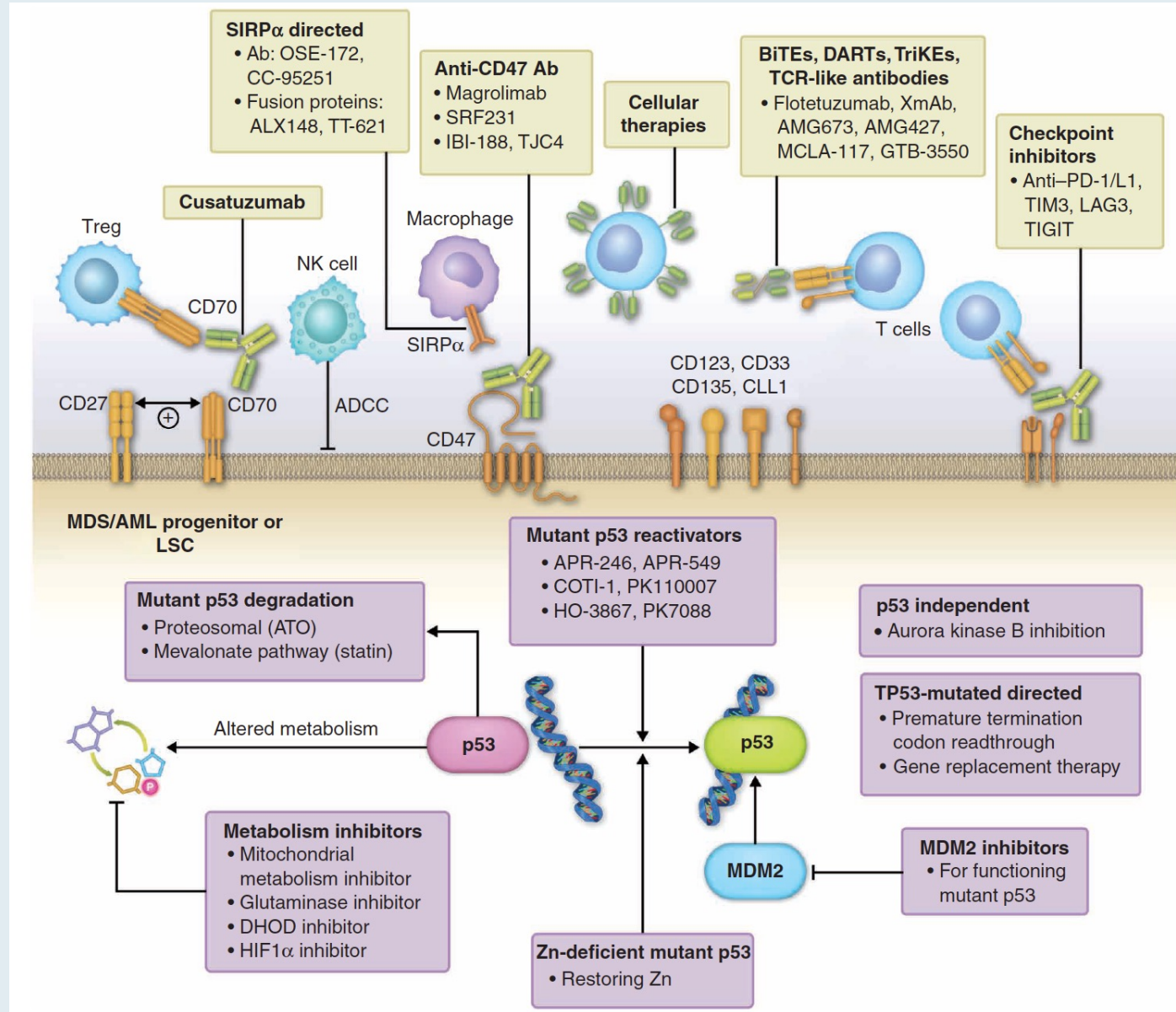
Naval G. Daver¹, Abhishek Maiti¹, Tapan M. Kadia¹, Paresh Vyas², Ravindra Majeti³, Andrew H. Wei⁴, Guillermo Garcia-Manero¹, Charles Craddock⁵, David A. Sallman⁶, and Hagop M. Kantarjian¹

Cancer Discov 2022;12(11):2516-29.

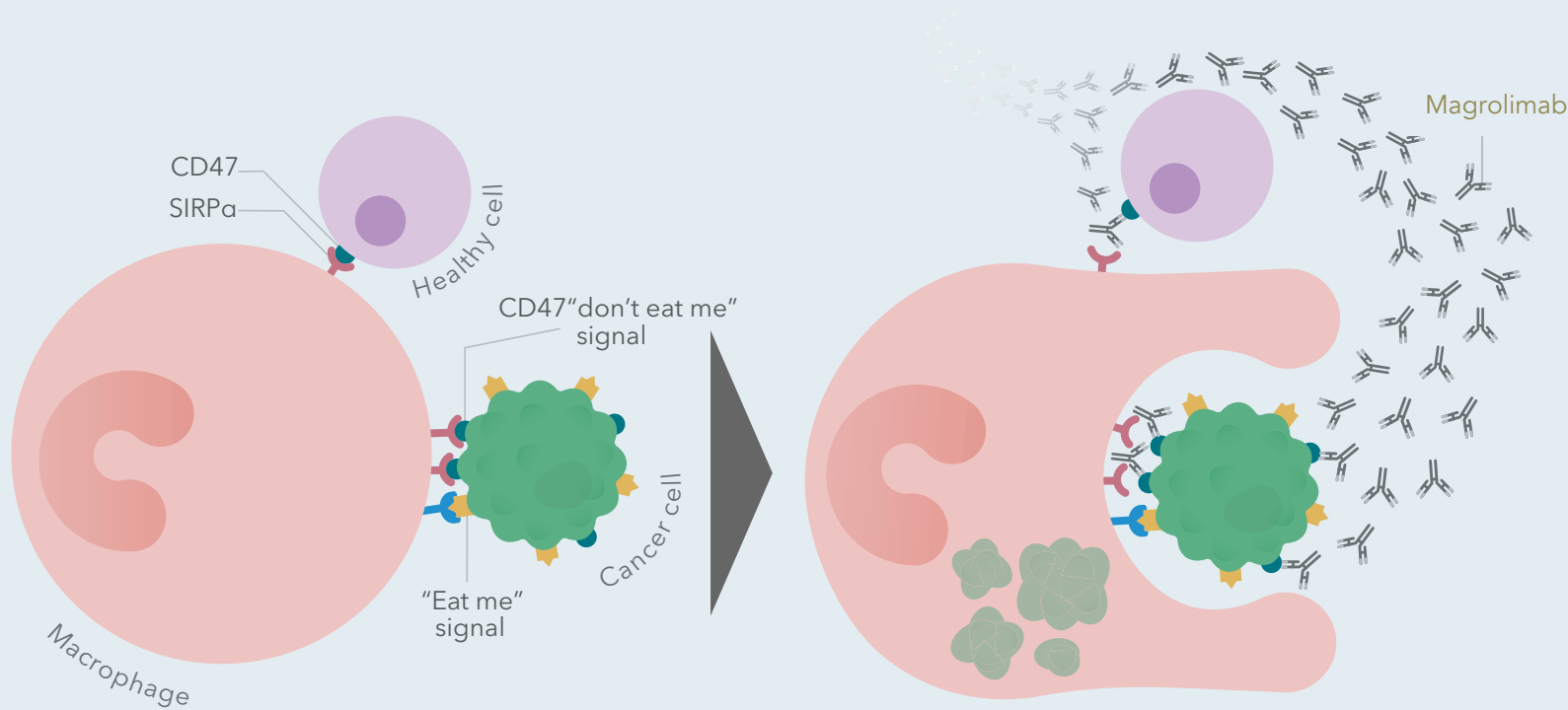
p53 Signaling Pathways



Novel Therapies for TP53-Mutated MDS and AML

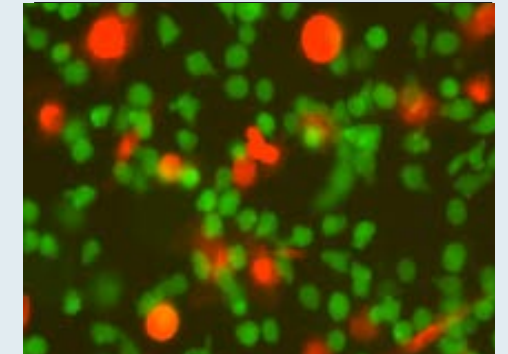


Magrolimab Is a Macrophage Immune Checkpoint Inhibitor Targeting CD47

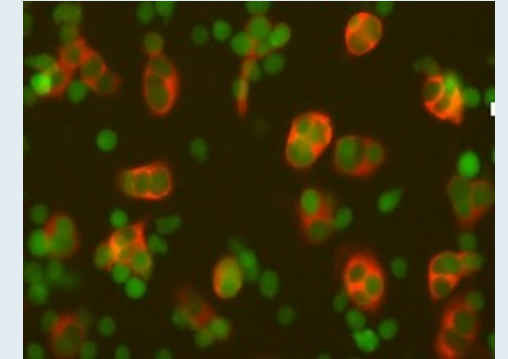


- Magrolimab is an IgG4 anti-CD47 monoclonal antibody (mAb) that eliminates tumor cells through macrophage phagocytosis
- Magrolimab is being investigated for multiple cancers with >500 patients dosed

Control mAb: No Phagocytosis



Anti-CD47 mAb: Phagocytosis



Macrophages Cancer cells

FDA Places Partial Clinical Hold on Magrolimab for AML

Press Release: August 21, 2023

"[T]he US Food and Drug Administration (FDA) has placed a partial clinical hold on the initiation of new patients in US studies evaluating magrolimab to treat acute myeloid leukemia (AML).

The FDA action follows the previously announced discontinuation of the Phase 3 ENHANCE study of magrolimab in higher-risk myelodysplastic syndromes (HR-MDS).

Effective immediately, screening and enrollment of new study participants under the US investigational new drug application (IND 147229) and US Expanded Access Program will be paused. Patients already enrolled in AML clinical studies may continue to receive treatment and be monitored, according to the current study protocol. Global regulatory authorities and clinical trial investigators involved in the studies have been informed of the FDA's decision. Studies of magrolimab in solid tumors continue without any impact from the FDA action."

Discontinuation of the Phase III ENHANCE Trial of Magrolimab with Azacitidine for Higher-Risk MDS

Press Release: July 21, 2023

"[T]he Phase 3 ENHANCE study in higher-risk myelodysplastic syndromes (MDS) has been discontinued due to futility based on a planned analysis. The safety data seen in this study is consistent with the known magrolimab profile and adverse events that are typical in this patient population. Gilead recommends discontinuing treatment with magrolimab in patients with MDS."

Meet The Professor with Dr Daver

INTRODUCTION

MODULE 1: Case Presentations

- Dr Bhatnagar: 59-year-old woman with multiple comorbidities and FLT3-ITD-positive AML s/p PD on azacitidine/venetoclax, now on gilteritinib
- Dr Keruakous: 70-year-old woman with FLT3-ITD- and IDH1-mutant AML receives an HMA with ivosidenib
- Dr Khan: 61-year-old man with newly diagnosed MDS-RS receives oral decitabine/cedazuridine
- Dr Cook: 66-year-old man presents with copper deficiency and ringed sideroblasts; genetic analysis reveals SF3B1 and DNMT3A mutations
- Dr Gupta: 71-year-old woman with PMH of extensively treated follicular lymphoma develops AML and receives CPX-351
- Dr Olin: 78-year-old woman with newly diagnosed AML receives decitabine/venetoclax with concurrent voriconazole
- Dr Rupard: 97-year-old woman is diagnosed with multiple myeloma and del(5q) MDS
- Dr Morganstein: 70-year-old woman with low-grade MDS-RS receives luspatercept

Case Presentation: 59-year-old woman with multiple comorbidities and FLT3-ITD-positive AML s/p PD on azacitidine/venetoclax, now on gilteritinib



Dr Tina Bhatnagar (Wheeling, West Virginia)

FDA Approves Quizartinib for Newly Diagnosed AML

Press Release: July 20, 2023

“On July 20, 2023, the Food and Drug Administration approved quizartinib with standard cytarabine and anthracycline induction and cytarabine consolidation, and as maintenance monotherapy following consolidation chemotherapy, for the treatment of adult patients with newly diagnosed acute myeloid leukemia (AML) that is FLT3 internal tandem duplication (ITD)-positive, as detected by an FDA-approved test.

FDA also approved LeukoStrat CDx FLT3 Mutation Assay as a companion diagnostic for quizartinib. Efficacy of quizartinib with chemotherapy was evaluated in QuANTUM-First (NCT02668653), a randomized, double-blind, placebo-controlled trial of 539 patients with newly diagnosed FLT3-ITD positive AML. FLT3-ITD status was determined prospectively with a clinical trial assay and verified retrospectively with the companion diagnostic LeukoStrat CDx FLT3 Mutation Assay.”

***Lancet* 2023;401:1571-83**

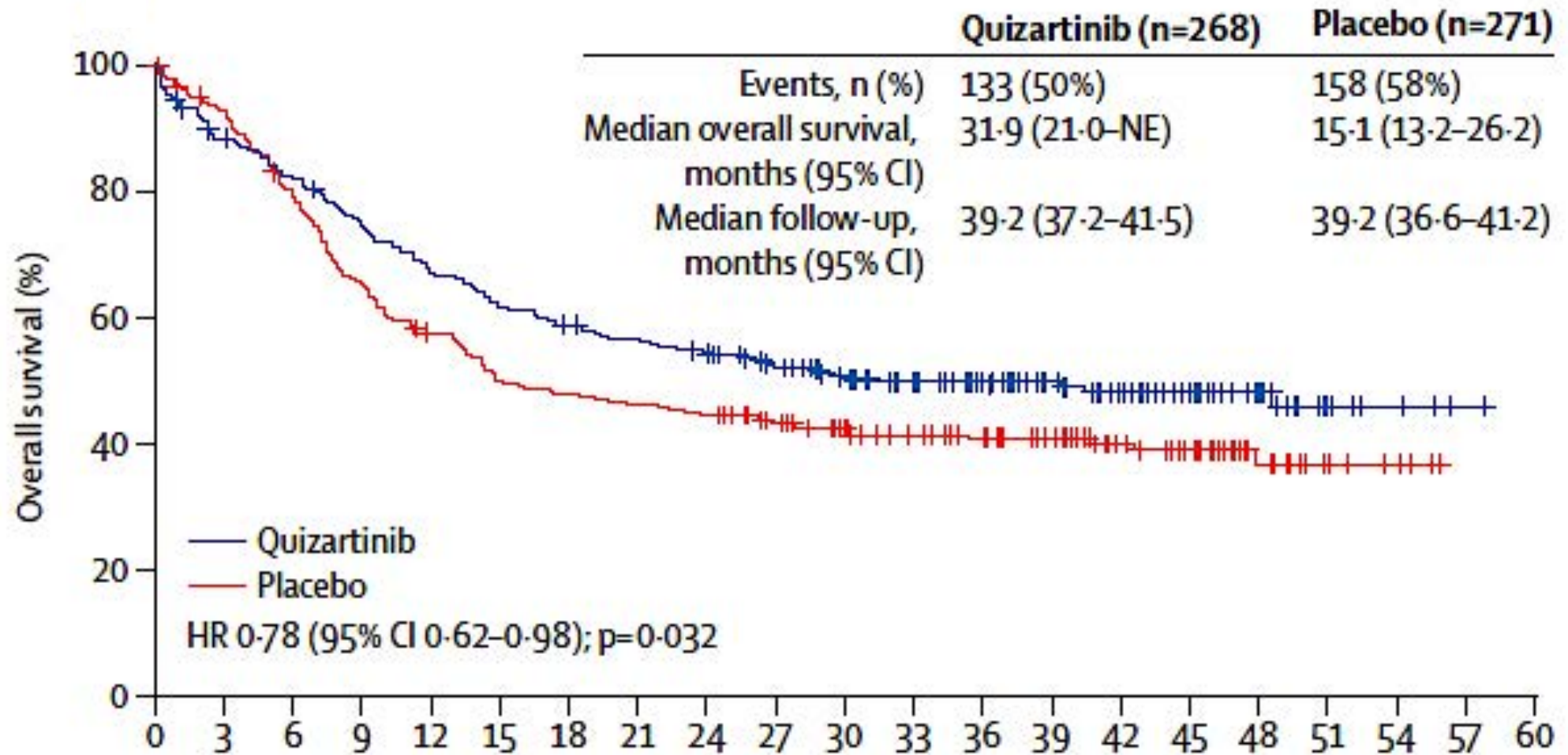
Articles

Quizartinib plus chemotherapy in newly diagnosed patients with *FLT3*-internal-tandem-duplication-positive acute myeloid leukaemia (QuANTUM-First): a randomised, double-blind, placebo-controlled, phase 3 trial

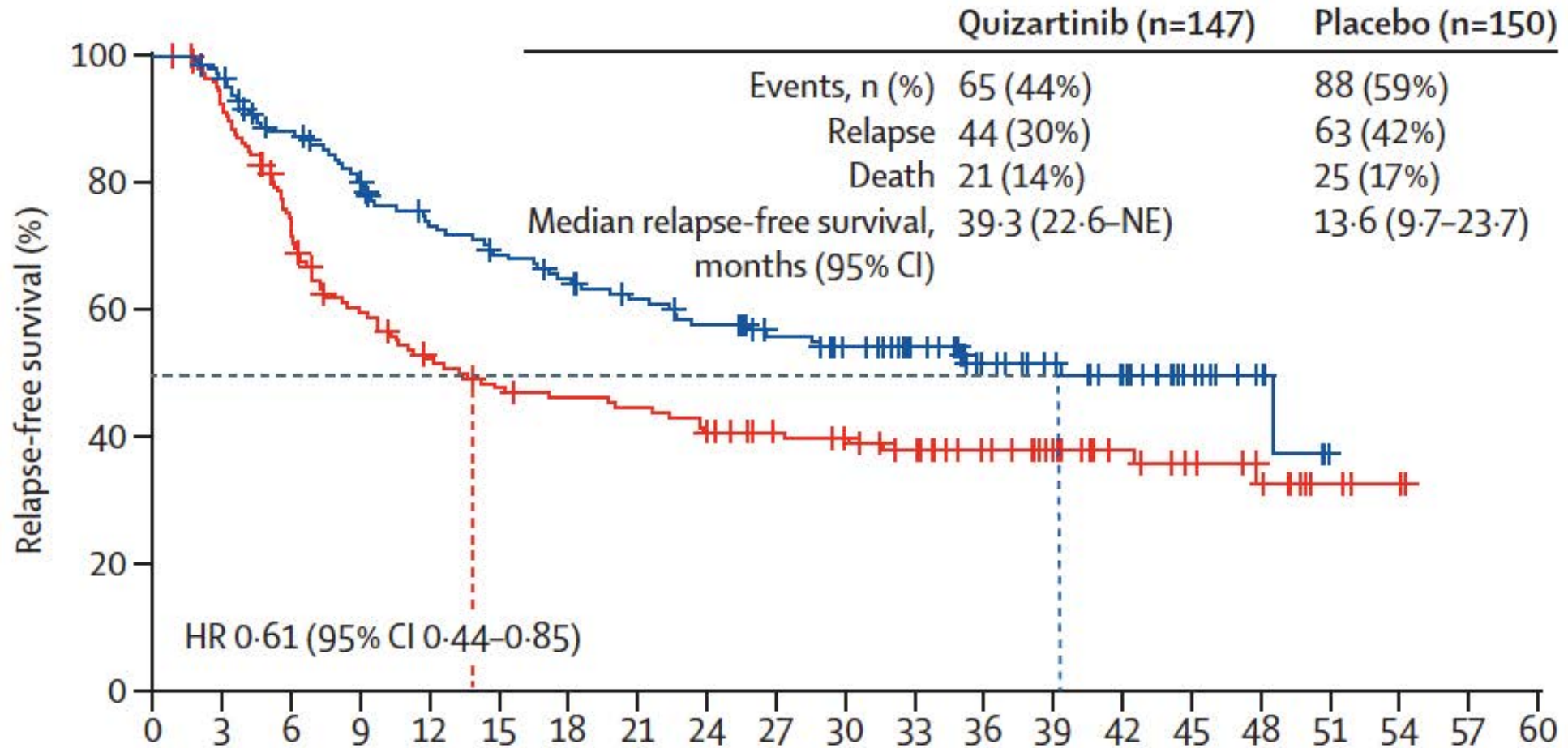


Harry P Erba, Pau Montesinos, Hee-Je Kim, Elżbieta Patkowska, Radovan Vrhovac, Pavel Žák, Po-Nan Wang, Tsvetomir Mitov, James Hanyok, Yasser Mostafa Kamel, Jaime E Connolly Rohrbach, Li Liu, Aziz Benzohra, Arnaud Lesegretain, Jorge Cortes, Alexander E Perl, Mikkael A Sekeres, Hervé Dombret, Sergio Amadori, Jianxiang Wang, Mark J Levis, Richard F Schlenk, on behalf of the QuANTUM-First Study Group

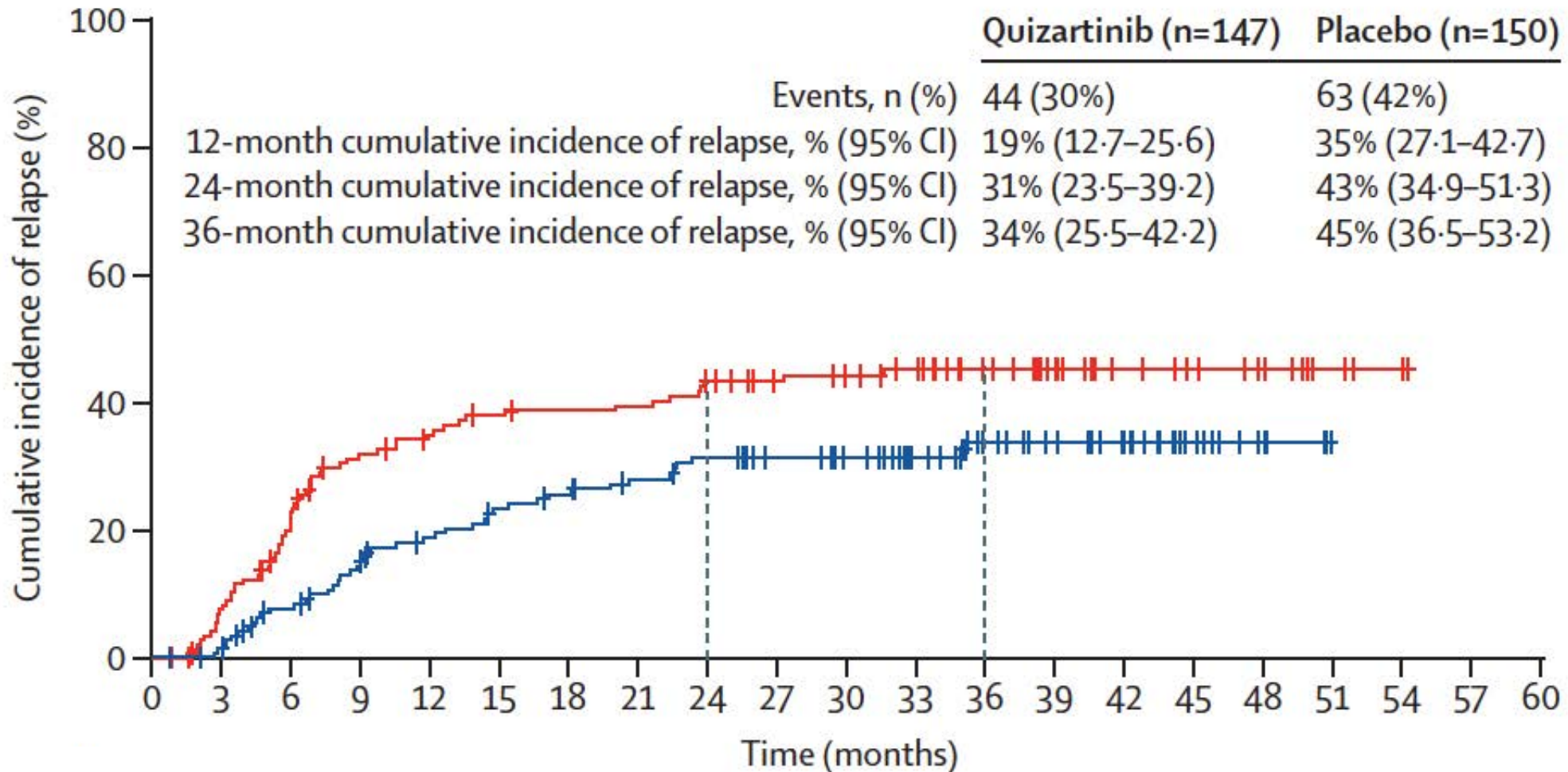
QuANTUM-First: Overall Survival with Quizartinib in Combination with Chemotherapy



QuANTUM-First: Relapse-Free Survival with Quizartinib in Combination with Chemotherapy



QuANTUM-First: Cumulative Incidence of Relapse with Quizartinib in Combination with Chemotherapy



Impact of Allogeneic Hematopoietic Cell Transplantation in First Complete Remission plus FLT3 Inhibition with Quizartinib in Acute Myeloid Leukemia with FLT3-ITD: Results from QuANTUM-First

Schlenk R F et al.

EHA 2023;Abstract S137

A Randomised Assessment of the Sequential Addition of the Kinase Inhibitor Quizartinib to Intensive Chemotherapy in Older Acute Myeloid Leukaemia (AML) Patients: Results from the NCRI AML18 Trial

Knapper S et al.

EHA 2023;Abstract S131.

Updated Results of VEN-A-QUI Study: A Phase 1-2 Trial to Assess the Safety and Efficacy of Triplets for Newly Diagnosed Unfit AML Patients: Azacitidine or Low-Dose Cytarabine with Venetoclax and Quizartinib

Burgues MB et al.

EHA 2023;Abstract S132.

Case Presentation: 70-year-old woman with FLT3-ITD- and IDH1-mutant AML receives an HMA with ivosidenib



Dr Amany Keruakous (Augusta, Georgia)

Case Presentation: 61-year-old man with newly diagnosed MDS-RS receives oral decitabine/cedazuridine



Dr Khuda Khan (Prospect, Kentucky)

Pharmacokinetic Exposure Equivalence and Preliminary Efficacy and Safety from a Randomized Crossover Phase 3 Study of an Oral Hypomethylating Agent, ASTX727 (DEC-C), Compared to IV Decitabine

Geissler K et al.

EHA 2022;Abstract P573.

ASCERTAIN (ASTX727-02) Trial AML Cohort: Preliminary Efficacy Response

Response category	All Treated Subjects (N=87) n (%)	95% CI
Complete response (CR)	19 (21.8)	(13.7, 32.0)
CR with incomplete blood count recovery (CRi)	5 (5.7)	(1.9, 12.9)
CR with incomplete platelet recovery (CRp)	2 (2.3)	(0.3, 8.1)
Partial response (PR)	4 (4.6)	(1.3, 11.4)
Stable disease	33 (37.9)	(27.7, 49.0)
Not Evaluable (NE)*	26 (29.9)	(20.5, 40.6)
Composite Response (CR + CRi + PR)	28 (32.2)	(22.6, 43.1)

* Subjects who did not have a valid post-treatment efficacy assessment (ie, no post-treatment BM/PB sample or the quality of BM/PB sample was not adequate for an assessment of efficacy) were classified as NE for response classification.

- Median CR duration was 5.8 months
- Median time to best response was 3.4 months
- 38% of the 37 subjects who were RBC transfusion dependent at baseline were RBC transfusion independent for any consecutive ≥56-day period post-baseline

ASCERTAIN (ASTX727-02) AML Cohort: Treatment-Emergent Adverse Events in >5% of Patients

Preferred Term	Phase 3 Total (N=87, n[%])	Phase 3 Total Grade 3 or higher
Thrombocytopenia	22 (25.3)	20 (23.0)
Neutropenia	14 (16.1)	14 (16.1)
Anemia	14 (16.1)	12 (13.8)
Febrile neutropenia	10 (11.5)	10 (11.5)
Nausea	9 (10.3)	0
Constipation	6 (6.9)	0
Asthenia	6 (6.9)	4 (4.6)
Decreased Appetite	6 (6.9)	0
Diarrhea	5 (5.7)	0

*Events attributed to oral decitabine/cedazuridine

- Safety profile consistent with that of decitabine
- Most grade 3 or higher events related to myelosuppression
- GI system adverse events following ASTX727 were generally grade 1-2



American Society of Hematology
Helping hematologists conquer blood diseases worldwide

2022;Abstract 461



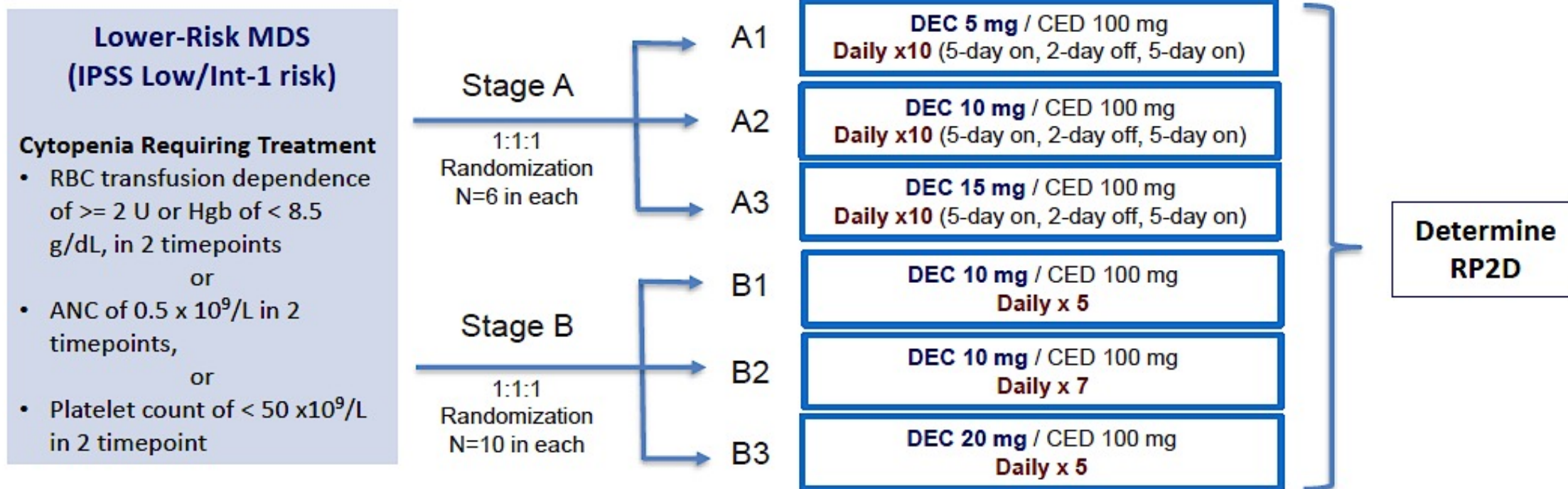
ASTX727-03: Phase 1 Study Evaluating Oral Decitabine/Cedazuridine (ASTX727) Low-Dose (LD) in Lower-Risk Myelodysplastic Syndromes (LR-MDS) Patients

On behalf of the ASTX727-03 Investigators Team

Guillermo Garcia-Manero¹, Kimo Bachiashvili², Harshad Amin³, Elie Traer⁴, Daniel A. Pollyea⁵, David Sallman⁶, Aref Al-Kali⁷, Larry Cripe⁸, Jesus Berdeja⁹, Elizabeth A. Griffiths¹⁰, Sanjay Mohan¹¹, Yuri Sano¹², Aram Oganesian¹², Harold Keer¹², Abdulraheem Yacoub¹³

¹The University of Texas MD Anderson Cancer Center, Houston, TX; ²University of Alabama at Birmingham Comprehensive Cancer Center, Birmingham, AL; ³Boca Raton Cancer Research, Boca Raton, FL; ⁴Oregon Health and Science University, Portland, OR; ⁵University of Colorado Cancer Center, Denver, CO; ⁶Moffitt Cancer Center, Tampa, FL; ⁷Mayo Clinic, Rochester, MN; ⁸Indiana University Health, Indianapolis, IN; ⁹Sarah Cannon Research Institute, Nashville, TN; ¹⁰Roswell Park Comprehensive Cancer Center, New York, NY; ¹¹Vanderbilt-Ingram Cancer Center, Nashville, TN; ¹²Astex Pharmaceuticals, Inc., Pleasanton, CA; ¹³The University of Kansas Clinical Cancer Research Center

ASTX727-03: Phase I Study Design



Major Entry Criteria:

- Cytopenia requiring treatment
- ECOG PS 0-2
- Adequate organ function
- Prior treatment with HMA is allowed
- Exclude CMML

Primary Endpoint

- Safety as determined by incidence of drug-related Grade ≥ 3 AEs or DLTs

Secondary Endpoint

- Hematologic Improvement (HI) based on modified 2016 IWG criteria
- Transfusion Independence
- Overall Survival (OS), Leukemia Free Survival (LFS)

IPSS – International Prognostic Scoring System; RBC – red blood cell; ANC – absolute neutrophil count; RP2D – recommended phase 2 dose; ECOG – Eastern Cooperative Oncology Group; PS – performance status; CMML – chronic myelomonocytic leukemia; AEs – adverse events; DLTs – dose-limiting toxicities; IWG – International Working Group

ASTX727-03: Treatment-Emergent Adverse Events with Oral Decitabine/Cedazuridine

Preferred Term	Cohort A1 5mg 10-day (N=10)	Cohort A2 10mg 10-day (N=4)	Cohort B1 10mg 5-day (N=11)	Cohort B2 10mg 7-day (N=11)	Cohort B3 20mg 5-day (N=11)	Total (N=47)
Subjects with any AE	10 (100)	4 (100)	11 (100)	11 (100)	11 (100)	47 (100)
Total number of AEs	162	54	290	265	317	1093
Fatigue	6 (60.0)	2 (50.0)	4 (36.4)	5 (45.5)	4 (36.4)	21 (44.7)
Neutropenia	3 (30.0)	3 (75.0)	5 (45.5)	5 (45.5)	3 (27.3)	19 (40.4)
Neutrophil count decreased	1 (10.0)	2 (50.0)	2 (18.2)	5 (45.5)	8 (72.7)	18 (38.3)
Anaemia	1 (10.0)	2 (50.0)	5 (45.5)	3 (27.3)	5 (45.5)	16 (34.0)
Constipation	2 (20.0)	1 (25.0)	3 (27.3)	6 (54.5)	4 (36.4)	16 (34.0)
Diarrhoea	1 (10.0)	1 (25.0)	3 (27.3)	3 (27.3)	5 (45.5)	13 (27.7)
Decreased appetite	0	2 (50.0)	3 (27.3)	4 (36.4)	3 (27.3)	12 (25.5)
Cough	2 (20.0)	3 (75.0)	3 (27.3)	1 (9.1)	3 (27.3)	12 (25.5)
Pyrexia	3 (30.0)	1 (25.0)	4 (36.4)	2 (18.2)	1 (9.1)	11 (23.4)
Platelet count decreased	2 (20.0)	0	3 (27.3)	3 (27.3)	3 (27.3)	11 (23.4)
Oedema peripheral	2 (20.0)	1 (25.0)	4 (36.4)	1 (9.1)	3 (27.3)	11 (23.4)
Dyspnoea	0	2 (50.0)	4 (36.4)	2 (18.2)	2 (18.2)	10 (21.3)

- Safety profile consistent with that of standard (approved) DEC-C dosing
- No significant safety differences between the cohorts, with the exception of increase of AE frequency of decreased neutrophil counts observed in regimens with higher DEC doses per cycle (A2, B2, & B3)
- No clinically significant incidence of GI events at all the investigated doses were attributed to oral DEC-C

Phase 1/2 study of oral decitabine/cedazuridine in combination with venetoclax in treatment-naïve higher-risk myelodysplastic syndromes or chronic myelomonocytic leukemia

Alex Bataller, Guillermo Montalban-Bravo, Alexandre Bazinet, Yesid Alvarado, Kelly Chien, Sangeetha Venugopal, Jo Ishizawa, Danielle Hammond, Mahesh Swaminathan, Koji Sasaki, Ghayas C. Issa, Nicholas J. Short, Lucia Masarova, Naval G. Daver, Tapan M. Kadia, Simona Colla, Wei Qiao, Xuelin Huang, Rashmi Kanagal-Shamanna, Stephany Hendrickson, Farhad Ravandi, Elias Jabbour, Hagop Kantarjian, Guillermo Garcia-Manero

Leukemia Department, The University of Texas MD Anderson Cancer Center, Houston (TX, USA)

June 10th 2023
s424 Clinical updates in MDS

Conclusions

- Combination of oral decitabine with venetoclax is a tolerable totally oral treatment for HR-MDS and CMML
- Oral decitabine/cedazuridine with venetoclax is an active combination, achieving an ORR of 95%, with a CR rate of 36% and a mCR of 59%
- Up to 49% of patients with HR-MDS and CMML could undergo HSCT after achieving response with this combination
- Definitive conclusions regarding the benefit of venetoclax with HMA in HR-MDS await completion of the phase 3 randomized trial VERONA (NCT04401748)

Case Presentation: 66-year-old man presents with copper deficiency and ringed sideroblasts; genetic analysis reveals SF3B1 and DNMT3A mutations



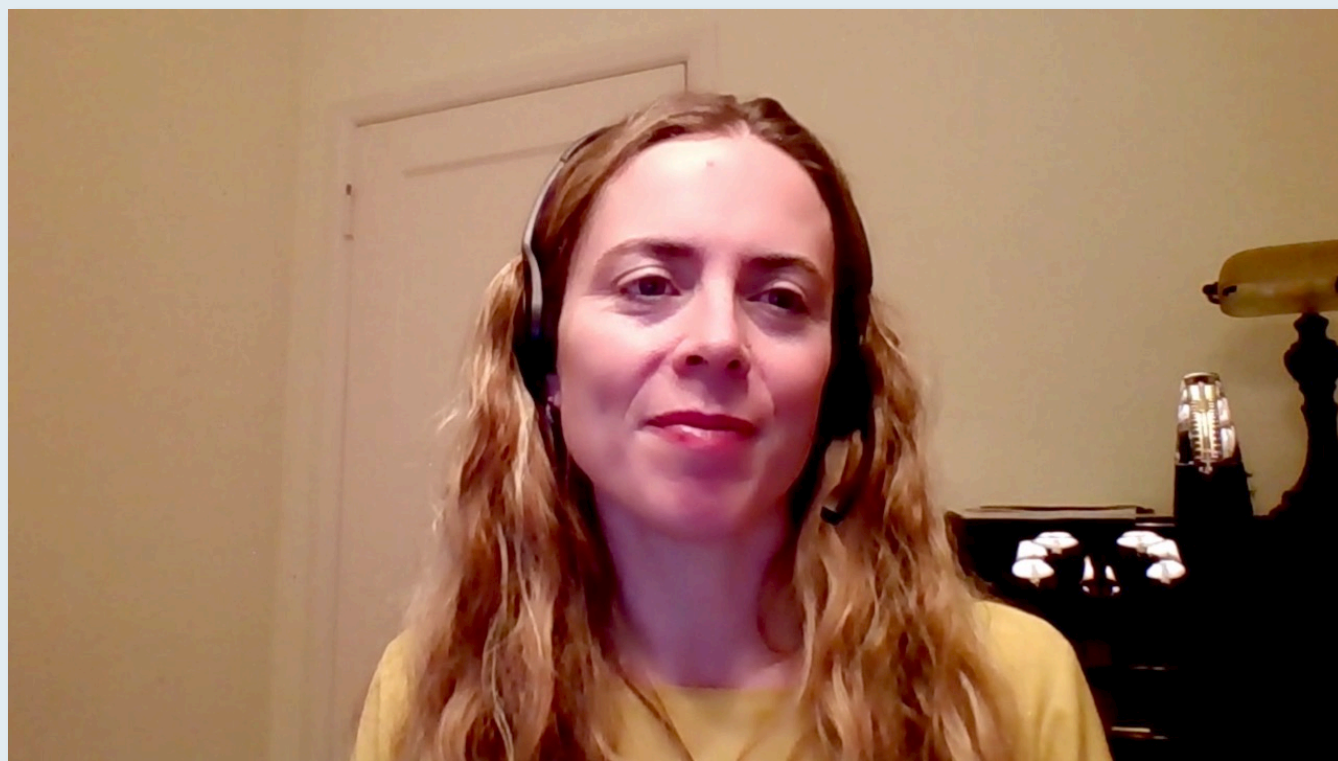
Dr Rachel Cook (Portland, Oregon)

Case Presentation: 71-year-old woman with PMH of extensively treated follicular lymphoma develops AML and receives CPX-351



Dr Ranju Gupta (Bethlehem, Pennsylvania)

Case Presentation: 78-year-old woman with newly diagnosed AML receives decitabine/venetoclax with concurrent voriconazole



Dr Rebecca Olin (San Francisco, California)

Case Presentation: 97-year-old woman is diagnosed with multiple myeloma and del(5q) MDS



Dr Erik Rupard (West Reading, Pennsylvania)

Case Presentation: 70-year-old woman with low-grade MDS-RS receives luspatercept



Dr Neil Morganstein (Summit, New Jersey)

Meet The Professor with Dr Daver

INTRODUCTION: Biology, Classification, p53, Magrolimab

MODULE 1: Case Presentations

MODULE 2: Journal Club with Dr Daver

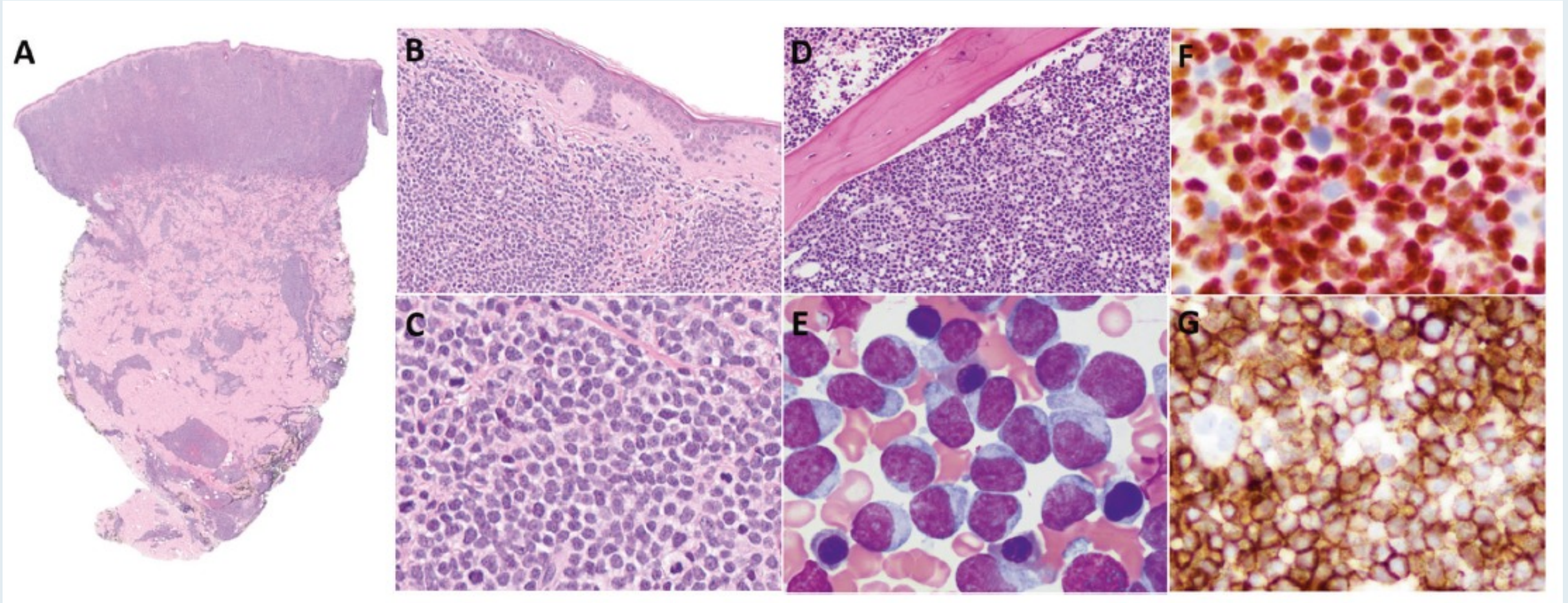
MODULE 3: Appendix

Blastic plasmacytoid dendritic cell neoplasm: a comprehensive review in pediatrics, adolescents, and young adults (AYA) and an update of novel therapies

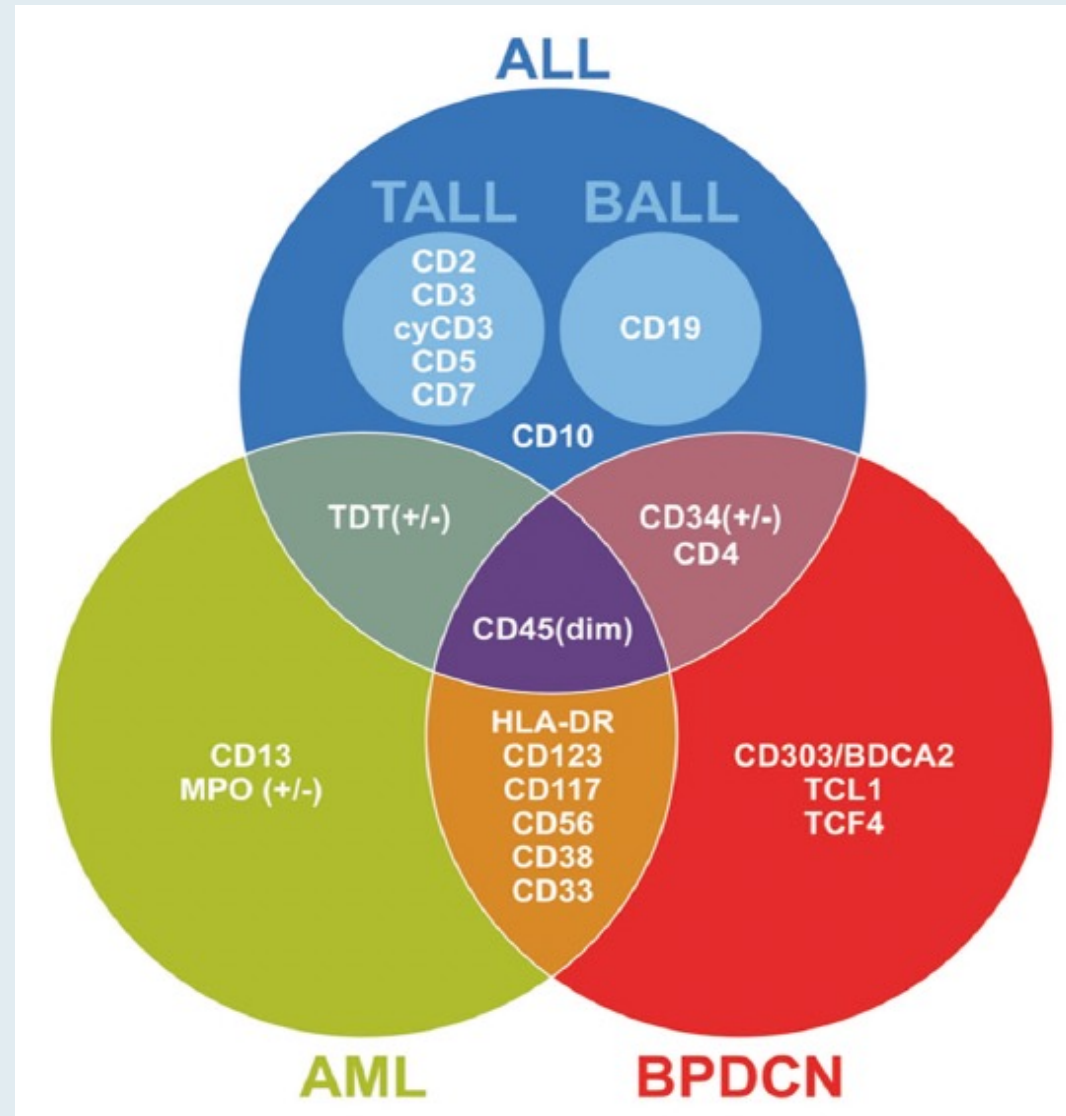
Branko Cuglievan^{1,14}✉, Jeremy Connors^{ID 1,14}, Jiasen He^{ID 1}, Sajad Khazal^{ID 2}, Sireesha Yedururi³, Julia Dai⁴, Sofia Garces⁵, Andres E. Quesada^{ID 5}, Michael Roth¹, Miriam Garcia^{ID 1}, David McCall^{ID 1}, Amber Gibson¹, Dristhi Ragoonanan^{ID 2}, Demetrios Petropoulos², Priti Tewari², Cesar Nunez¹, Kris M. Mahadeo⁶, Sarah K. Tasian⁷, Adam J. Lamble⁸, Anna Pawlowska⁹, Danielle Hammond¹⁰, Abhishek Maiti¹⁰, Fadi G. Haddad¹⁰, Jayatsu Senapati¹⁰, Naval Daver^{ID 10}, Naseema Gangat¹¹, Marina Konopleva^{ID 12}, Soheil Meshinchi¹³ and Naveen Pemmaraju^{ID 10}

Leukemia 2023;37(9):1767-78

Histologic Presentation Patterns of Blastic Plasmacytoid Dendritic Cell Neoplasm



Typical Blastic Plasmacytoid Dendritic Cell Neoplasm (BPDCN) Cell Surface Markers and Their Overlap with Other Hematologic Cancers



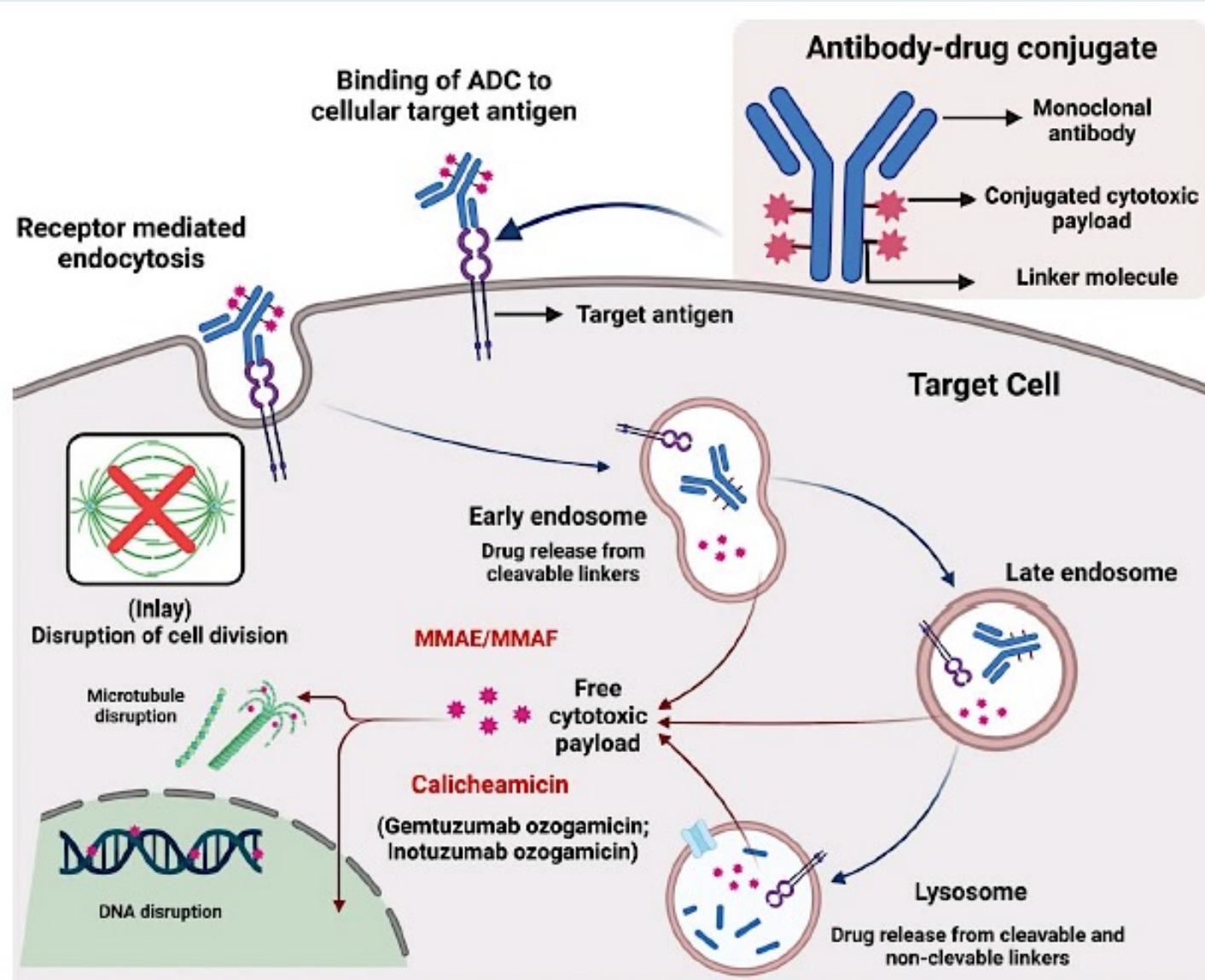
REVIEW ARTICLE

Antibody-Drug Conjugates in Myeloid Leukemias

Jayastu Senapati, MBBS, MD, DM, Naval G. Daver, MD, and Naveen Pemmaraju, MD

Cancer J 2022;28(6):454-61

Antibody-Drug Conjugate (ADC) Mechanism of Action



A Phase 1b/2 Study of Pivekimab Sunirine (PVEK, IMGN632) in Combination with Venetoclax/Azacitidine or Magrolimab for Patients with CD123-Positive Acute Myeloid Leukemia (AML)

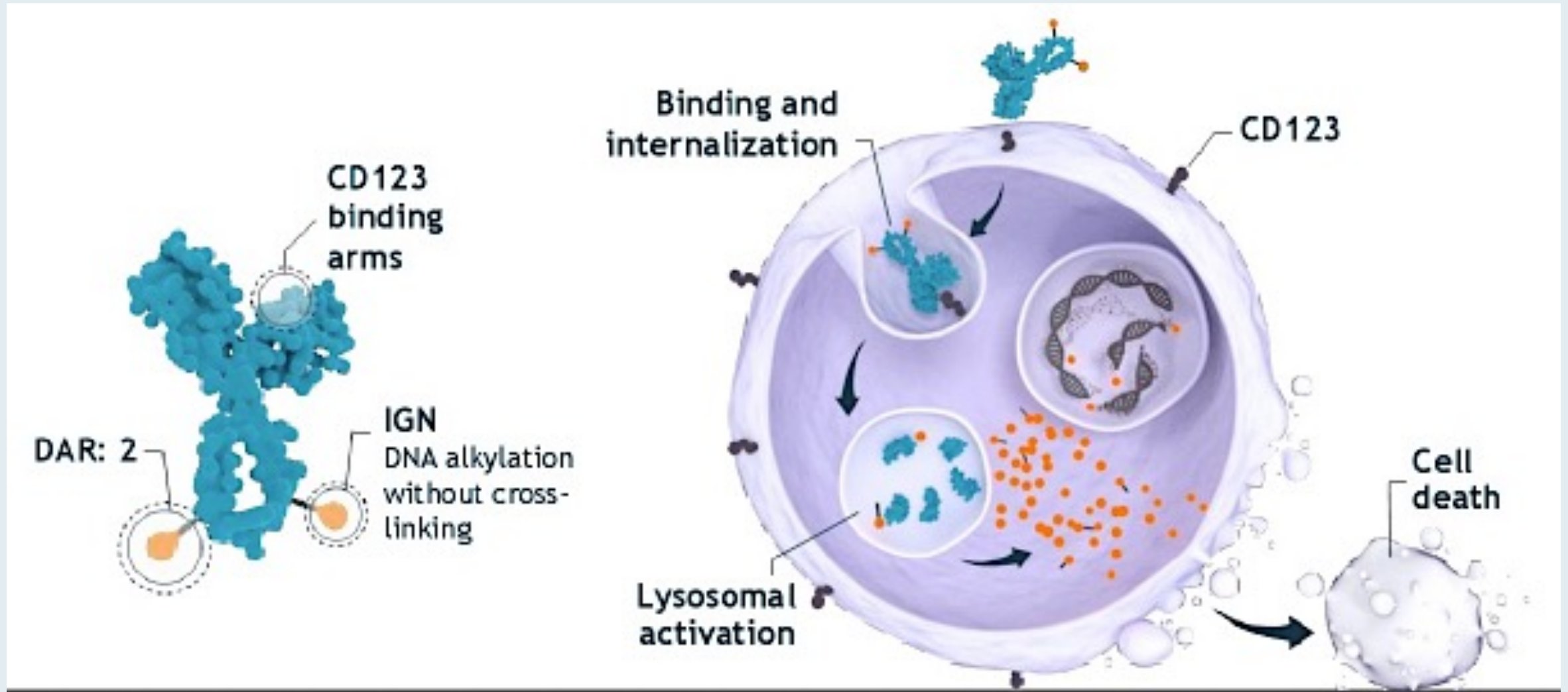
Daver NG et al.

ASCO 2023;Abstract TPS7073.

Daver NG et al.

EHA 2023;Abstract PB1888.

Structure and Mechanism of Action of PVEK



A First-in-Human Study of CD123 NK Cell Engager SAR443579 in Relapsed or Refractory Acute Myeloid Leukemia, B-Cell Acute Lymphoblastic Leukemia or High Risk-Myelodysplasia

Anthony Stein¹, Mojca Jongen-Lavrencic², Sylvain Garcia³, Gerwin A Huls⁴, Abhishek Maiti⁵, Nicolas Boissel⁶, Stephane De Botton⁷, Shaun Fleming⁸, C. Michel Zwaan⁹, David C. de Leeuw¹⁰, Pinkal Desai¹¹, Martha Lucia Arellano¹², David Avigan¹³, Saskia Langemeijer¹⁴, Kyle Jensen¹⁵, Timothy Wagenaar¹⁵, Gu Mi¹⁵, Giovanni Abbadesse¹⁵, Ashish Bajel¹⁶

¹City of Hope Medical Center, Duarte, CA; ²Erasmus University Medical Center, Rotterdam, Netherlands;

³Institut Paoli-Calmettes, Aix-Marseille University, Marseille, France; ⁴University Medical Center Groningen, Groningen, Netherlands;

⁵MD Anderson Cancer Center, Houston, TX; ⁶Hôpital Saint-Louis, Paris, France; ⁷Institut Gustave Roussy, Paris, France;

⁸Alfred Health, Melbourne, Australia; ⁹Princess Máxima Center for Pediatric Oncology, Utrecht, Netherlands;

¹⁰Amsterdam University Medical Center, Amsterdam, Netherlands; ¹¹Weill Cornell Medicine, New York, NY; ¹²Emory University, Atlanta, GA;

¹³Beth Israel Deaconess Medical Center, Boston, MA; ¹⁴Radboud University Medical Center, Nijmegen, Netherlands;

¹⁵Sanofi, Cambridge, MA; ¹⁶Peter MacCallum Cancer Centre and Royal Melbourne Hospital, Melbourne, Australia

Presented at American Society of Clinical Oncology (ASCO) Annual Meeting 2023 – Chicago, IL, June 02-06, 2023; #7005

REVIEW ARTICLE

Checkpoint Inhibitors and Other Immune-Based Therapies in Acute Myeloid Leukemia

Fadi Haddad, MD, Amer M. Zeidan, MBBS, MHS,† and Naval Daver, MD**

Cancer J 2022;28:43-50

“T cell-directed therapies have been investigated in AML with promising results. Novel BiTE and TriKE targets are being exploited in an effort to improve efficacy and limit adverse effects. Newer-generation CAR-T cells and more recently cCAR constructs are being designed with less off-target effects, which would potentially allow safer use in myeloid malignancies.”

Immunologic Predictors for Clinical Responses during Immune Checkpoint Blockade in Patients with Myelodysplastic Syndromes

Sung-Eun Lee^{1,2}, Feng Wang³, Maison Grefe⁴, Abel Trujillo-Ocampo⁴, Wilfredo Ruiz-Vasquez⁴, Koichi Takahashi^{3,5}, Hussein A. Abbas⁵, Pamela Borges^{5,6}, Dinler Amaral Antunes⁶, Gheath Al-Atrash^{1,4,5}, Naval Daver⁵, Jeffrey J. Molldrem^{1,4,5}, Andrew Futreal³, Guillermo Garcia-Manero⁴, and Jin S. Im^{1,4,5}

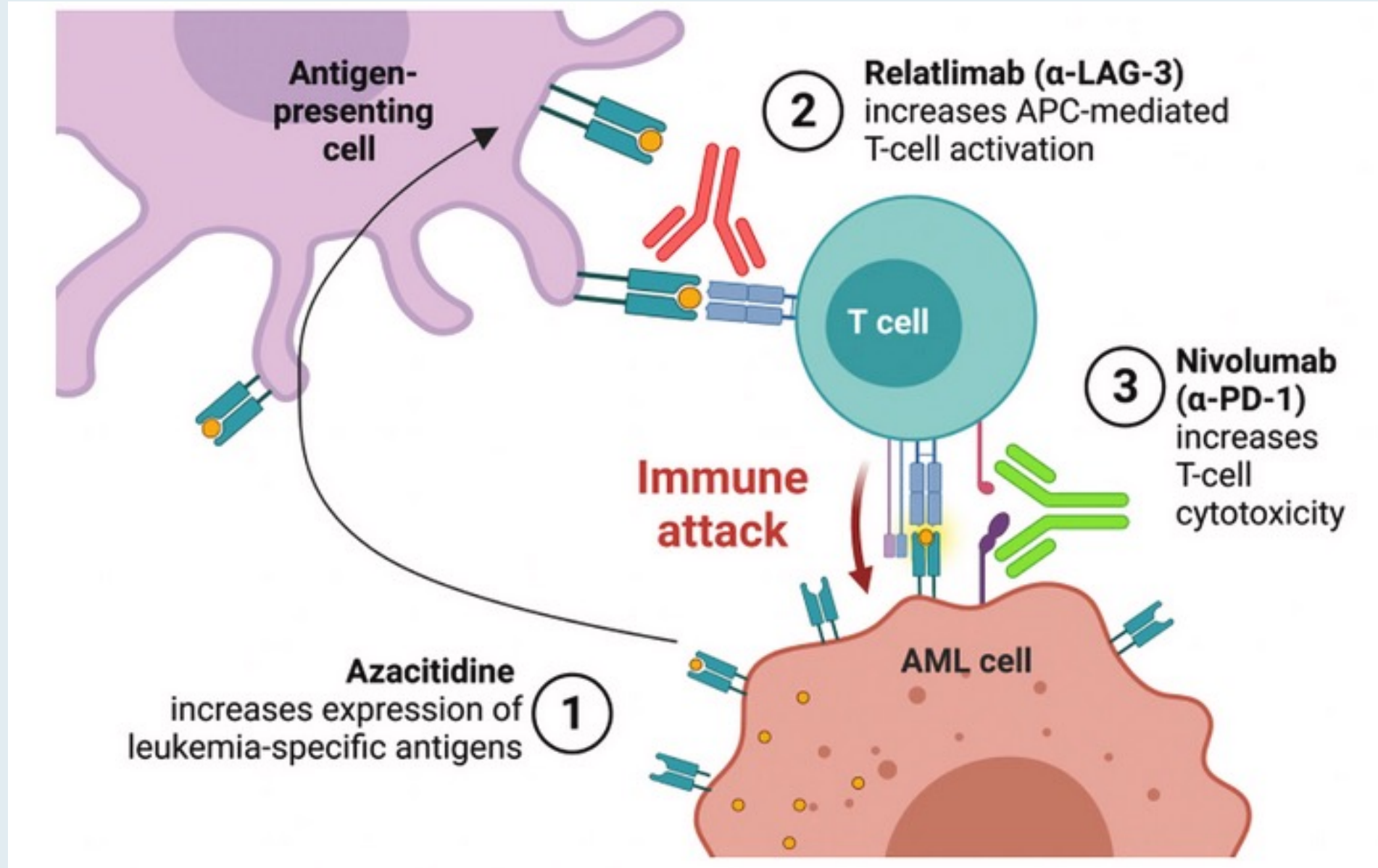
Clin Cancer Res 2023;29:1938-51

Trial in Progress: An Open-Label Phase II Study of Relatlimab with Nivolumab in Combination with 5-Azacytidine for the Treatment of Patients with Relapsed/Refractory and Elderly Patients with Newly Diagnosed Acute Myeloid Leukemia (AARON)

Buecklein VL et al.

Blood 2022;140(Supplement 1):3227-28.

Rationale for Combining 5-Azacitidine with Relatlimab and Nivolumab





Cigarette smoke exposure accelerates AML progression in FLT3-ITD models

Tracking no: ADV-2023-010111R2

Mary Figueroa (M.D. Anderson Cancer Center, United States) Huaxian Ma (MD Anderson, United States) Mansour Alfayez (MD Anderson Cancer Center, Saudi Arabia) Daniel Morales-Mantilla (Baylor College of Medicine, United States) Fei Wang (M.D. Anderson Cancer Center, United States) Yue Lu (MD Anderson Cancer Center, United States) Marcos Estecio (UT M, . D, Anderson Cancer Center, United States) Katherine King (Baylor College of Medicine, United States) Eugenie Kleinerma (The University of Texas M. D. Anderson Cancer Center, United States) Seyed Javad Moghaddam (The University of Texas M.D. Anderson Cancer Center, United States) Naval Daver (University of Texas, MD Anderson Cancer Center, United States) Michael Andreeff (The University of Texas M.D. Anderson Cancer Center, United States) Marina Konopleva (Albert Einstein College of Medicine, United States) Courtney DiNardo (UT MD Anderson Cancer Center, United States) Joya Chandra (M.D. Anderson Cancer Center, United States)

2023; July 24 [Online ahead of print]

Microsatellite Instability Assessment by Immunohistochemistry in Acute Myeloid Leukemia: A Reappraisal and Review of the Literature

Siba El Hussein,^{a,d} Naval Daver,^b Jing-Lan Liu,^{b,c} Steven Kornblau,^b Hong Fang,^a
Sergej Konoplev,^a Hagop Kantarjian,^b Joseph D. Khoury^a

Clin Lymphoma Myeloma Leuk 2022;22(6):e386-91.

Menin Inhibitor DS-1594b Drives Differentiation and Induces Synergistic Lethality in Combination with Venetoclax in AML Cells with MLL-Rearranged and NPM1 Mutation

Ciaurro V et al.

Blood 2022;140(Supplement 1):3082-83.

RESEARCH ARTICLE



Activity of decitabine as maintenance therapy in core binding factor acute myeloid leukemia

Jayastu Senapati¹ | Mahran Shoukier¹ | Guillermo Garcia-Manero¹ |
Xuemei Wang² | Keyur Patel³ | Tapan Kadia¹ | Farhad Ravandi¹ |
Naveen Pemmaraju¹ | Maro Ohanian¹ | Naval Daver¹ |
Courtney DiNardo¹ | Yesid Alvarado¹ | Jeffrey Aldrich⁴ | Gautam Borthakur¹

Am J Hematol 2022;97(5):574-82.

TO THE EDITOR:

An agenda to advance research in myelodysplastic syndromes: a TOP 10 priority list from the first international workshop in MDS

Maximilian Stahl,¹ Omar Abdel-Wahab,² Andrew H. Wei,³ Michael R. Savona,⁴ Mina L. Xu,⁵ Zhuoer Xie,⁶ Justin Taylor,⁸ Daniel Starczynowski,⁹ Guillermo F. Sanz,¹⁰⁻¹² David A. Sallman,⁶ Valeria Santini,¹³ Gail J. Roboz,¹⁴ Mrinal M. Patnaik,⁷ Eric Padron,⁶ Olatoyosi Odenike,¹⁵ Aziz Nazha,¹⁶ Stephen D. Nimer,⁸ Ravindra Majeti,¹⁷ Richard F. Little,¹⁸ Steven Gore,¹⁸ Alan F. List,¹⁹ Vijay Kutchroo,²⁰ Rami S. Komrokji,⁶ Tae Kon Kim,⁴ Nina Kim,¹⁸ Christopher S. Hourigan,²¹ Robert P. Hasserjian,²² Stephanie Halene,²³ Elizabeth A. Griffiths,²⁴ Peter L. Greenberg,¹⁷ Maria Figueroa,⁸ Pierre Fenaux,²⁵ Fabio Efficace,²⁶ Amy E. DeZern,²⁷ Matteo G. Della Porta,²⁸ Naval G. Daver,²⁹ Jane E. Churpek,³⁰ Hetty E. Carraway,³¹ Andrew M. Brunner,³² Uma Borate,³³ John M. Bennett,³⁴ Rafael Bejar,³⁵ Jacqueline Boultonwood,³⁶ Sanam Loghavi,³⁷ Jan Philipp Bewersdorf,² Uwe Platzbecker,³⁸ David P. Steensma,³⁹ Mikkael A. Sekeres,⁸ Rena J. Buckstein,⁴⁰ and Amer M. Zeidan²³

2023;7(12):2709-14

Efficacy and safety results from the COMMANDS trial: a phase 3 study evaluating luspatercept vs epoetin alfa in erythropoiesis-stimulating agent-naïve transfusion- dependent patients with lower-risk myelodysplastic syndromes

Guillermo Garcia-Manero,¹ Uwe Platzbecker,² Valer
Rami S. Komrokji,⁶ Jake Shortt,⁷ David Valcarcel,⁸ A
Ing Soo Tiong,¹¹ Chien-Chin Lin,¹² Jiahui Li,¹³ Sandra
Andrius Degulys,¹⁵ Carlo Finelli,¹⁶ Thomas Cluzeau,¹

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Yale University, New Haven, CT, USA; ³Service d'Hématologie Séniors, Hôpital Saint-Louis, U
and Monash Health, Melbourne, VIC, Australia; ⁴Hospital Universitari Vall d'Hebron, Barcelon
Prague, Czech Republic; ⁵Hôpital Haut-Lévêque, Centre Hospitalier Universitaire de Borde
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Särl, a Bristol-Myers Squibb Company, Boudry, Switzerland; ⁷Hematology, Oncology and Tra
Institute of Clinical Medicine, Faculty of Medicine, Vilnius University, Vilnius, Lithuania; ⁸IF
Bologna, Italy; ⁹Département d'Hématologie Clinique, Université Côte d'Azur, CHU Nice, Nî
Biomedical Sciences, Humanitas University, Milan, Italy. *At the time the study was conduct

Abstract number 7003

Lancet 2023;402:373-85.

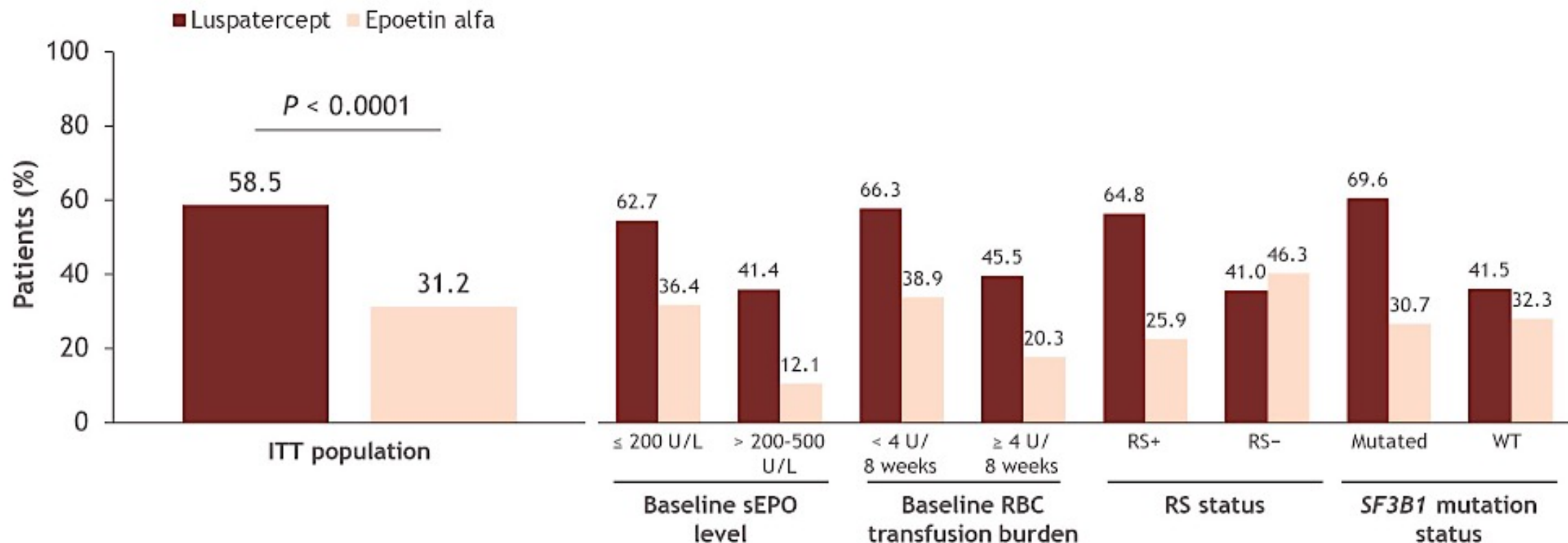
Articles

Efficacy and safety of luspatercept versus epoetin alfa in erythropoiesis-stimulating agent-naïve, transfusion- dependent, lower-risk myelodysplastic syndromes (COMMANDS): interim analysis of a phase 3, open-label, randomised controlled trial



Uwe Platzbecker*, Matteo Giovanni Della Porta*, Valeria Santini, Amer M Zeidan, Rami S Komrokji, Jake Shortt, David Valcarcel, Anna Jonasova,
Sophie Dimicoli-Salazar, Ing Soo Tiong, Chien-Chin Lin, Jiahui Li, Jennie Zhang, Ana Carolina Giuseppi, Sandra Kreitz, Veronika Pozharskaya,
Karen L Keeperman, Shelonitda Rose, Jeevan K Shetty, Sheida Hayati, Sadanand Vodala, Thomas Prebet, Andrius Degulys, Stefania Paolini,
Thomas Cluzeau, Pierre Fenaux†, Guillermo Garcia-Manero†

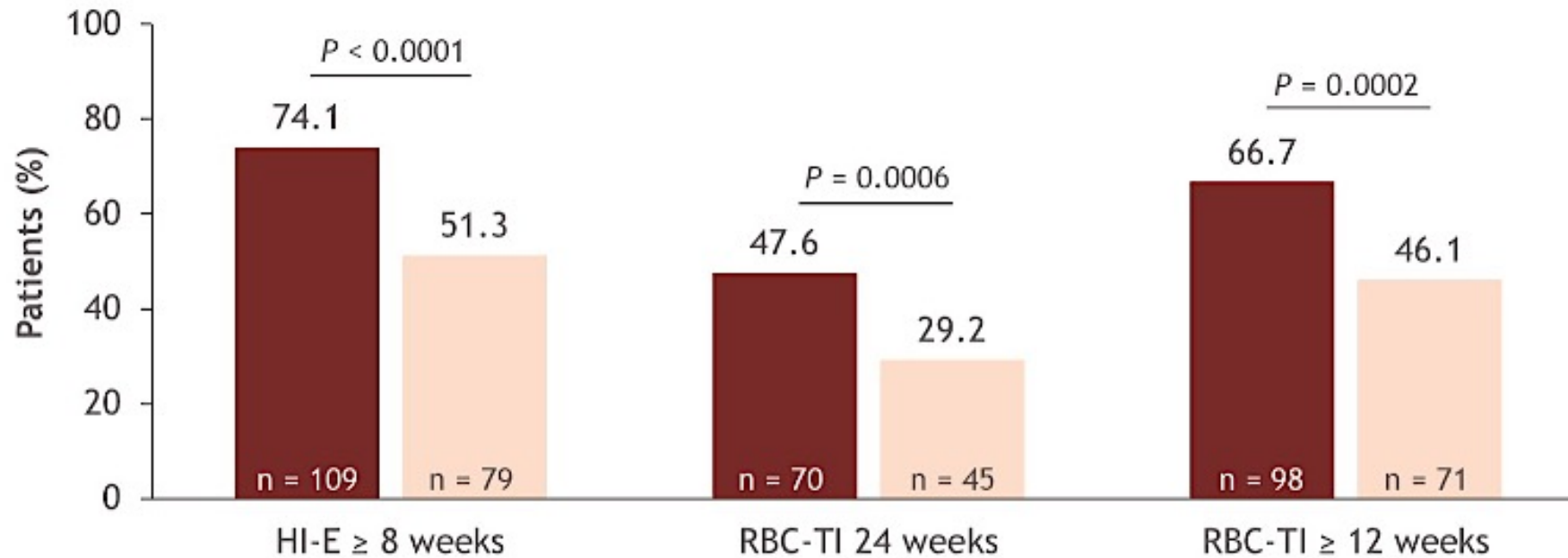
COMMANDS Composite Primary Endpoint: RBC Transfusion Independence for ≥ 12 Weeks with Concurrent Mean Hb Increase ≥ 1.5 g/dL



RS status, baseline sEPO level, and baseline RBC transfusion burden were prespecified factors for randomization. SF3B1 mutation status was a post hoc subgroup analysis. WT, wild type.

COMMANDS Secondary Endpoints: RBC Transfusion Independence (TI) for ≥ 12 Weeks and Hematological Improvement-Erythroid (HI-E) During Weeks 1-24

	Luspatercept (N = 147)	Epoetin alfa (N = 154)
Time to first RBC transfusion (week 1-EOT), median (range), weeks	n = 93 168.0 (64.0-323.0)	n = 116 42.0 (22.0-55.0)



Luspatercept versus epoetin alfa for treatment of anemia in ESA-naïve lower-risk myelodysplastic syndromes patients requiring RBC transfusions: data from the phase 3 COMMANDS study

Matteo Giovanni Della Porta,^{1,2} Uwe Platzbecker,³ Valeria Santini,⁴ Amer M. Zeidan,⁵ Pierre Fenaux,⁶ Rami S. Komrokji,⁷ Jake Shortt,⁸ David Valcarcel,⁹ Anna Jonasova,¹⁰ Sophie Dimicoli-Salazar,¹¹ Ing Soo Tiong,¹² Chien-Chin Lin,¹³ Jiahui Li,¹⁴ Jennie Zhang,¹⁴ Ana Carolina Giuseppe,¹⁴ Sandra Kreitz,¹⁵ Veronika Pozharskaya,¹⁴ Karen L. Keeperman,¹⁴ Shelonitda Rose,¹⁴ Jeevan K. Shetty,^{15*} Sheida Hayati,¹⁴ Sadanand Vodala,¹⁴ Andrius Degulys,^{16,17} Stefania Paolini,¹⁸ Thomas Cluzeau,¹⁹ Guillermo Garcia-Manero²⁰

¹Cancer Center IRCCS Humanitas Research Hospital, Milan, Italy; ²Department of Biomedical Sciences, Humanitas University, Milan, Italy; ³Medical Clinic and Policlinic 1, Hematology and Cellular Therapy, University Hospital Leipzig, Leipzig, Germany; ⁴MDS Unit, Hematology, University of Florence, AOUC, Florence, Italy; ⁵Department of Internal Medicine, Yale School of Medicine and Yale Cancer Center, Yale University, New Haven, CT, USA; ⁶Service d'Hématologie Séniors, Hôpital Saint-Louis, Université Paris 7, Paris, France; ⁷Moffitt Cancer Center, Tampa, FL, USA; ⁸Monash University and Monash Health, Melbourne, VIC, Australia; ⁹Hospital Universitari Vall d'Hebron, Barcelona, Spain; ¹⁰Medical Department Hematology, Charles University General University Hospital, Prague, Czech Republic; ¹¹Hôpital Haut-Lévêque, Centre Hospitalier Universitaire de Bordeaux, Bordeaux, France; ¹²Malignant Haematology & Stem Cell Transplantation, The Alfred, Melbourne, VIC, Australia; ¹³Department of Laboratory Medicine, National Taiwan University Hospital, Taipei, Taiwan; ¹⁴Bristol Myers Squibb, Princeton, NJ, USA; ¹⁵Celgene International Sàrl, a Bristol-Myers Squibb Company, Boudry, Switzerland; ¹⁶Hematology, Oncology and Transfusion Medicine Center, Vilnius University Hospital Santaros Klinikos, Vilnius, Lithuania; ¹⁷Institute of Clinical Medicine, Faculty of Medicine, Vilnius University, Vilnius, Lithuania.; ¹⁸IRCCS University Hospital of Bologna, "Seràgnoli" Institute of Hematology, Bologna, Italy; ¹⁹Département d'Hématologie Clinique, Université Côte d'Azur, CHU Nice, Nice, France; ²⁰Department of Leukemia, University of Texas MD Anderson Cancer Center, Houston, TX, USA.

*At the time of the study

FDA Expands Indication for Luspatercept as First-Line Treatment of Anemia in Lower-Risk MDS Regardless of Ring Sideroblast Status

Press Release — August 28, 2023

“[It was] today announced that the US Food and Drug Administration (FDA) has approved luspatercept-aamt for the treatment of anemia without previous erythropoiesis stimulating agent use (ESA-naïve) in adult patients with very low- to intermediate-risk myelodysplastic syndromes (MDS) who may require regular red blood cell (RBC) transfusions.

This expanded indication to the first-line setting is based on interim results from the pivotal Phase 3 COMMANDS trial, in which luspatercept-aamt demonstrated superior efficacy of concurrent RBC transfusion independence and hemoglobin increase compared to epoetin alfa, an ESA, regardless of ring sideroblast status. These results underscore luspatercept-aamt’s ability to address chronic anemia earlier in the treatment journey in a broader range of patients.”

Meet The Professor with Dr Daver

INTRODUCTION: Biology, Classification, p53, Magrolimab

MODULE 1: Case Presentations

MODULE 2: Journal Club with Dr Daver

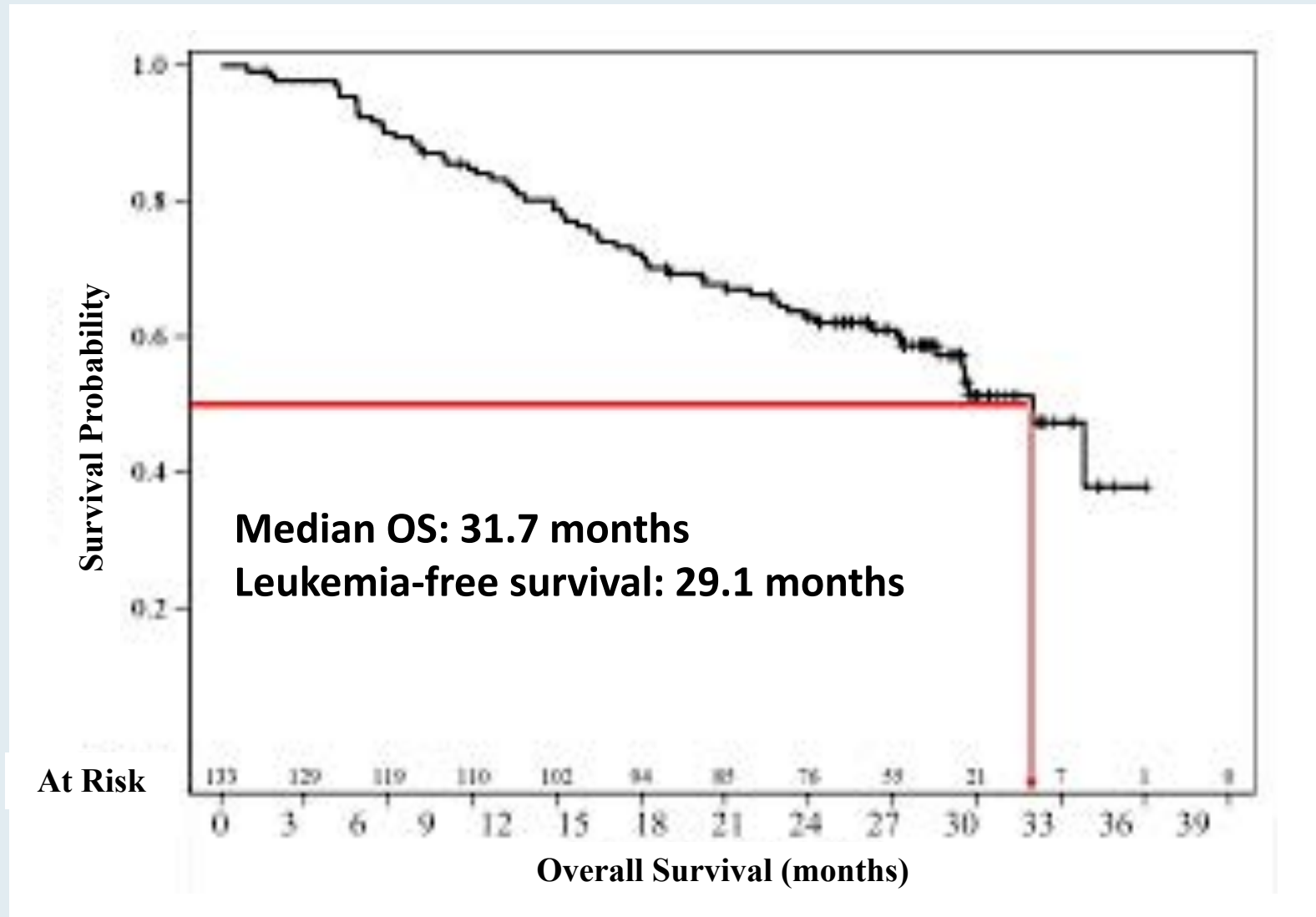
MODULE 3: Appendix

Prolonged Survival Observed in 133 MDS Patients Treated with Oral Decitabine/Cedazuridine

Savona MR et al.

16th International Congress on Myelodysplastic Syndromes
(MDS 2021);Abstract P48.


ASCERTAIN: Updated Overall Survival with 32-Month Follow-Up



RESEARCH ARTICLE



Clinical characteristics and overall survival among acute myeloid leukemia patients with *TP53* gene mutation or chromosome 17p deletion

Naval G. Daver¹  | Shahed Iqbal² | Julie Huang² | Camille Renard² |
Joyce Lin² | Yang Pan² | Mellissa Williamson² | Giridharan Ramsingh²

Am J Hematol 2023;98(8):1176-84.













CONSENSUS STATEMENT

***TP53*-altered acute myeloid leukemia and myelodysplastic syndrome with excess blasts should be approached as a single entity**

Rory M. Shallis MD¹  | Naval G. Daver MD²  | Jessica K. Altman MD³ |
Robert P. Hasserjian MD⁴ | Hagop M. Kantarjian MD² | Uwe Platzbecker MD⁵ |
Valeria Santini MD⁶ | Andrew H. Wei MBBS, PhD, FRACP, FRCPA⁷ |
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***Cancer* 2023;129(2):175-80.**

6 Tolerability and Efficacy of the Anticlust of Differentiation 47 Antibody Magrolimab Combined With Azacitidine in Patients With Previously Untreated AML: Phase Ib Results

Naval G. Daver, MD¹ ; Paresh Vyas, FRCP² ; Suman Kambhampati, MD³; Monzr M. Al Malki, MD⁴ ; Richard A. Larson, MD⁵ ; Adam S. Asch, MD⁶; Gabriel Mannis, MD⁷; Wanxing Chai-Ho, MD⁸ ; Tiffany N. Tanaka, MD⁹; Terrence J. Bradley, MD¹⁰; Deepa Jeyakumar, MD¹¹ ; Eunice S. Wang, MD¹² ; Kendra Sweet, MD¹³; Hagop M. Kantarjian, MD¹ ; Guillermo Garcia-Manero, MD¹ ; Rami Komrokji, MD¹³ ; Guan Xing, PhD¹⁴; Giridharan Ramsingh, MD¹⁴; Camille Renard, MSc¹⁴; Joshua F. Zeidner, MD¹⁵ ; and David A. Sallman, MD¹³ 

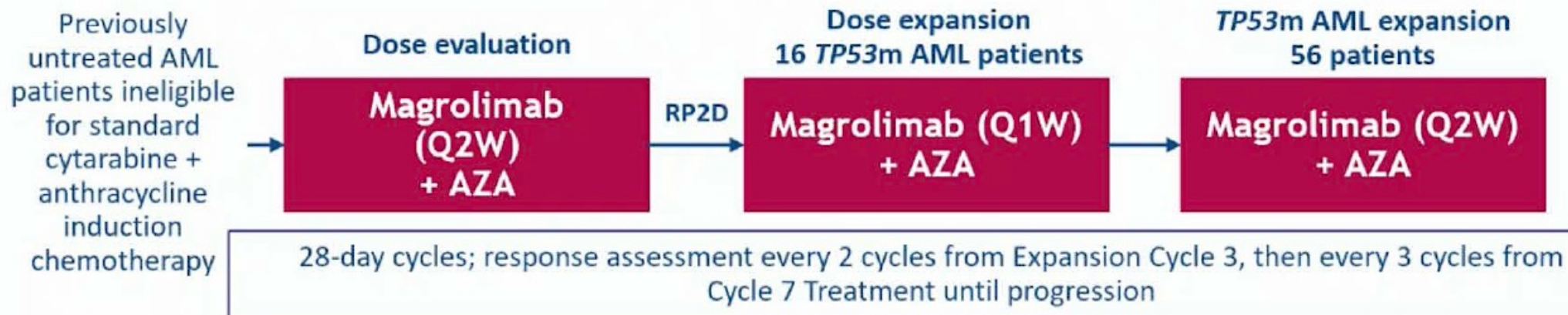
J Clin Oncol 2023 September 13;[Online ahead of print]

5F9005 Study: Front-Line Magrolimab in Combination with Azacitidine for Previously Untreated AML — Response

Clinical endpoint	All patients (n = 87)	TP53 mutation (n = 72)	TP53 wild type (n = 15)
ORR, %	47.1%	47.2%	46.7%
CR, %	32.2%	31.9%	33.3%
CRi, No. (%)	5 (5.7%)	5 (6.9%)	0
Duration of CR/CRi, months	9.6 mo	7.7 mo	31.3 mo

ORR = objective response rate; CR = complete remission; Cri = CR with incomplete blood count recovery;
DCR = duration of complete remission

5F9005 Study Design: A Phase Ib Study of Magrolimab in Combination with Azacitidine for TP53-Mutated AML



- Patients received magrolimab IV as a 1 mg/kg priming dose on Days 1 and 4, then ramp-up to 30 mg/kg maintenance once or twice weekly. AZA dose was administered SC or IV, 75 mg/m² on Days 1-7 of each cycle.

Primary objectives

Safety, tolerability and efficacy of magrolimab + azacitidine in AML

Secondary objectives

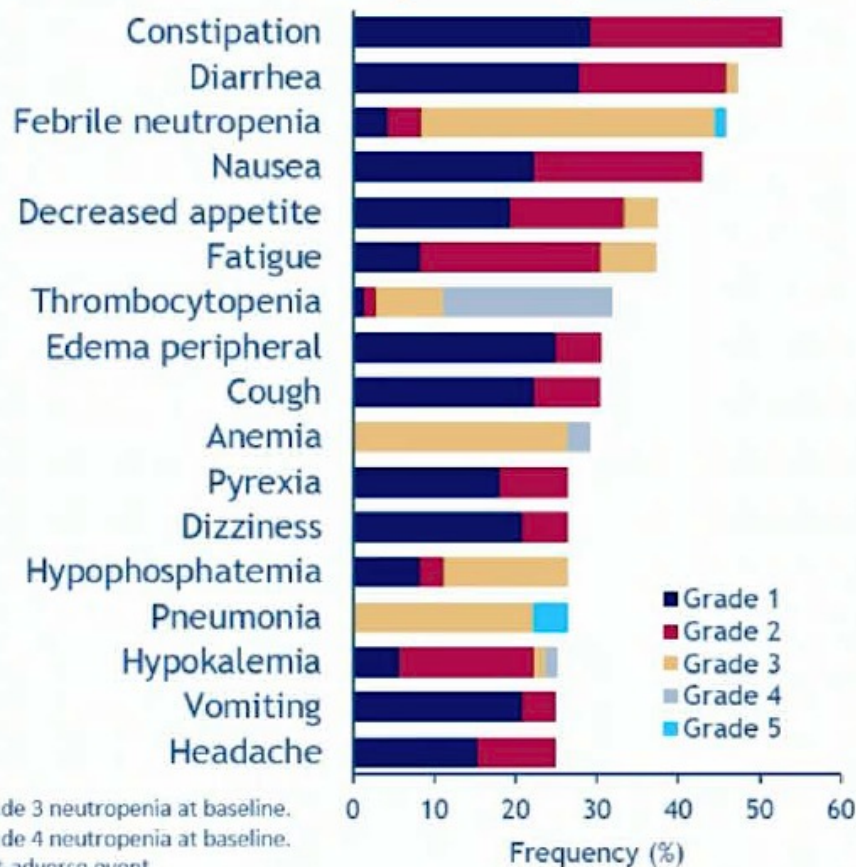
Efficacy of magrolimab + azacitidine; MRD negativity; PK profile; immunogenicity

Exploratory objectives

CD47 RO, biomarkers, efficacy in molecular subtypes of AML

5F9005 Phase Ib Study of Front-Line Magrolimab in Combination with Azacitidine for TP53-Mutated AML: Safety Summary

Common TEAEs by Grade ($\geq 25\%$); N = 72



13 (18.1%) patients had Grade 3 neutropenia at baseline.
35 (48.6%) patients had Grade 4 neutropenia at baseline.
TEAE = treatment-emergent adverse event.

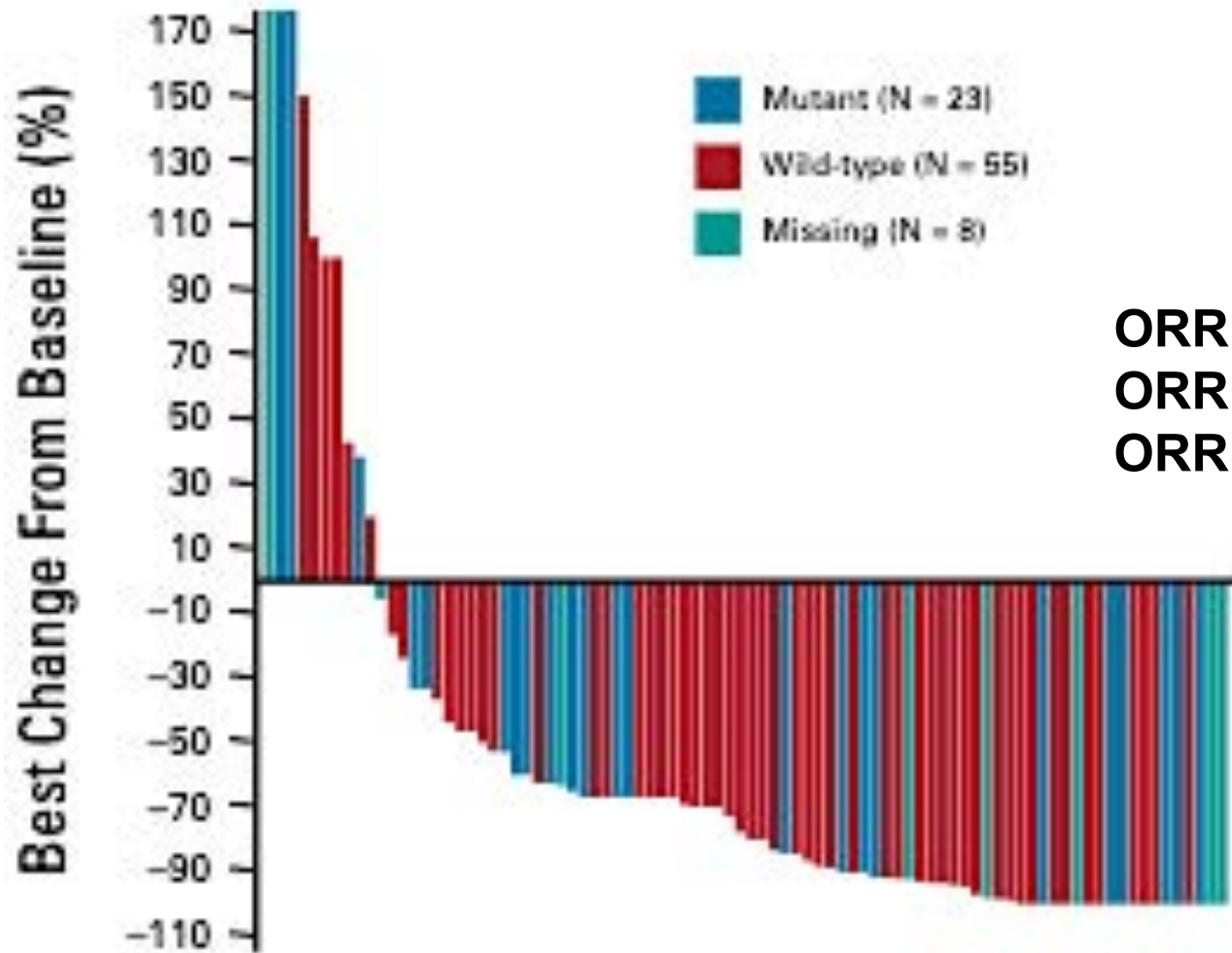
- No patient had magrolimab dose reduction; magrolimab dose delays occurred in 45.8% of patients.
- TEAEs led to discontinuation of magrolimab in 22 (30.6%) and of AZA in 21 (29.2%) patients.
- 13 (18.1%) patients died within 60 days of the first study drug dose.
- Infusion-related reaction (all grades) in 22.2%, Grade 3+ in 1.4%.
- 19 (26.4%) patients had Grade 3 anemia, and 2 (2.8%) had Grade 4 anemia, regardless of attribution.

Magrolimab in Combination With Azacitidine in Patients With Higher-Risk Myelodysplastic Syndromes: Final Results of a Phase Ib Study

David A. Sallman, MD¹; Monzr M. Al Malki, MD²; Adam S. Asch, MD³; Eunice S. Wang, MD⁴; Joseph G. Jurcic, MD⁵; Terrence J. Bradley, MD⁶; Ian W. Flinn, MD⁷; Daniel A. Pollyea, MD, MS⁸; Suman Kambhampati, MD⁹; Tiffany N. Tanaka, MD¹⁰; Joshua F. Zeidner, MD¹¹; Guillermo Garcia-Manero, MD¹²; Deepa Jeyakumar, MD¹³; Rami Komrokji, MD¹; Jeffrey Lancet, MD¹; Hagop M. Kantarjian, MD¹²; Lin Gu, MS¹⁴; Yajia Zhang, PhD¹⁴; Anderson Tan, PharmD, RPh¹⁴; Mark Chao, MD, PhD¹⁴; Carol O'Hear, MD, PhD¹⁴; Giridharan Ramsingh, MD¹⁴; Indu Lal, MD¹⁴; Paresh Vyas, MD, PhD¹⁵; and Naval G. Daver, MD¹²

J Clin Oncol 2023;41(15):2815-26

5F9005: Response to Magrolimab in Combination with Azacitidine for Higher-Risk MDS with and without TP53 Mutations



ORR in all patients (N = 95): 74.7%
ORR in *TP53* wild-type (n = 61): 78.7%
ORR in *TP53* mutant (n = 25): 68.0%

5F9005: Select Treatment-Emergent Adverse Events (TEAEs) with Magrolimab in Combination with Azacitidine for Higher-Risk MDS (N = 95)

TEAE (%)	Total	Grade 3	Grade 4
Constipation	68.4	—	—
Thrombocytopenia	54.7	9.5	36.8
Anemia	51.6	46.3	1.1
Neutropenia	47.4	4.2	42.1
Febrile neutropenia	30.5	27.4	1.1
WBC count decreased	29.5	4.2	25.3
Hypophosphatemia	18.9	11.6	—

Immune-related reactions possibly/probably related to magrolimab were infrequent (2.1%; one Grade 2 pneumonitis and one Grade 3 pneumonitis).

ENHANCE Phase III Study Design

Study treatment may be continued, up to 5 years, until disease progression, loss of clinical benefit, or unacceptable toxicities occur

Screening:
Untreated MDS
intermediate to very
high risk by IPSS-R

1:1 Randomization
(n=520)

Magrolimab + Azacitidine*

Placebo + Azacitidine*

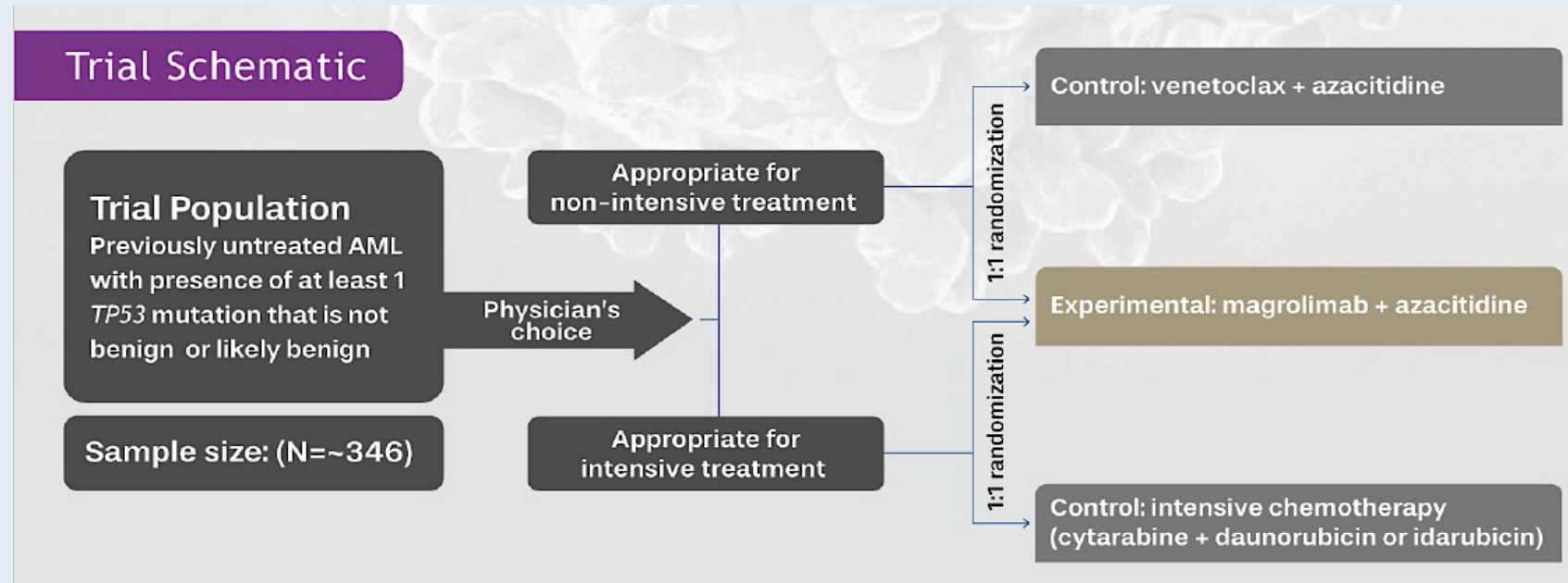
Dosing	Cycle* 1	Cycle 2	Cycle 3 and Beyond
Magrolimab	Priming (1mg/kg) on Days 1 and 4 15 mg/kg on Day 8 30 mg/kg on Days 11, 15, 22	30 mg/kg on Days 1, 8, 15, 22	30 mg/kg Q2W on Days 1, 15
Placebo (saline)	Days 1, 4, 8, 11, 15, 22	Days 1, 8, 15, 22	Days 1, 15
Azacitidine	75 mg/m ² IV or SC on Days 1-7 (or Days 1-5 and 8-9) every cycle		

*Each cycle is 28 days.

IV, intravenous; SC, subcutaneous; Q2W, every 2 weeks.

Ongoing Phase III Studies of Magrolimab-Based Therapies for Newly Diagnosed AML

ENHANCE-2



ENHANCE-3


















Clinical and Molecular Characterization of Newly Diagnosed IDH/TP53 Co-Mutated AML and Impact of Genomically Sensitive Treatment Strategies

Venugopal S et al.

Blood 2022;140(Supplement 1):6328-30.

Optimizing the Use of Targeted Therapy for Patients with AML and FLT3 or IDH Mutations

Hypomethylating agent and venetoclax with FLT3 inhibitor “triplet” therapy in older/unfit patients with *FLT3* mutated AML

Musa Yilmaz ¹, Hagop Kantarjian ¹, Nicholas J. Short ¹, Patrick Reville ¹, Marina Konopleva ¹, Tapan Kadia ¹,
Courtney DiNardo ¹, Gautam Borthakur ¹, Naveen Pemmaraju ¹, Abhishek Maiti¹, Elias Jabbour ¹, Nitin Jain¹, Ghayas Issa ¹,
Koichi Takahashi ¹, Koji Sasaki ¹, Maro Ohanian¹, Sherry Pierce¹, Guillin Tang ², Sanam Loghavi ², Keyur Patel ², Sa A. Wang²,
Guillermo Garcia-Manero ¹, Michael Andreeff ¹, Farhad Ravandi ¹ and Naval Daver ¹✉










Blood Cancer J 2022;12(5):77

Transplant Cell Ther. 2023 April ; 29(4): 265.e1–265.e10. doi:10.1016/j.jtct.2022.12.006.

Outcomes in Patients with *FLT3*-Mutated Relapsed/ Refractory Acute Myelogenous Leukemia Who Underwent Transplantation in the Phase 3 ADMIRAL Trial of Gilteritinib versus Salvage Chemotherapy

Alexander E. Perl^{1,*}, Richard A. Larson², Nikolai A. Podoltsev³, Stephen Strickland⁴, Eunice S. Wang⁵, Ehab Atallah⁶, Gary J. Schiller⁷, Giovanni Martinelli⁸, Andreas Neubauer⁹, Jorge Sierra¹⁰, Pau Montesinos¹¹, Christian Recher¹², Sung-Soo Yoon¹³, Yoshinobu Maeda¹⁴, Naoko Hosono¹⁵, Masahiro Onozawa¹⁶, Takayasu Kato¹⁷, Hee-Je Kim¹⁸, Nahla Hasabou¹⁹, Rishita Nuthethi¹⁹, Ramon Tiu^{19,†}, Mark J. Levis²⁰

Gilteritinib in Combination With Induction and Consolidation Chemotherapy and as Maintenance Therapy: A Phase IB Study in Patients With Newly Diagnosed AML

Keith W. Pratz, MD¹ ; Mohamad Cherry, MD, MS²; Jessica K. Altman, MD³ ; Brenda W. Cooper, MD⁴ ; Nikolai A. Podoltsev, MD, PhD⁵ ; Jose Carlos Cruz, MD⁶; Tara L. Lin, MD⁷; Gary J. Schiller, MD⁸; Joseph G. Jurcic, MD⁹; Adam Asch, MD¹⁰; Ruishan Wu, MS¹¹; Jason E. Hill, PhD¹¹ ; Stanley C. Gill, PhD¹¹ ; Angela J. James, PhD¹¹ ; Elizabeth Shima Rich, MD, PhD¹¹; Nahla Hasabou, MD¹¹; Alexander E. Perl, MD¹ ; and Mark J. Levis, MD, PhD¹² 

J Clin Oncol 2023;41(26):4236-46.

Efficacy and Safety of Gilteritinib versus Sorafenib as Post-Transplant Maintenance in Patients with FLT3-ITD Acute Myeloid Leukemia

Yeh J et al.

Blood 2022;140(Supplement 1):7686-88.

Next-Generation Sequencing-Based Measurable Disease Monitoring in Acute Myeloid Leukemia with FLT3 Internal Tandem Duplication Treated with Intensive Chemotherapy plus Midostaurin

Rucker F et al.

EHA 2023;Abstract S135.

Characteristics of Select FLT3 Inhibitors

FLT3 inhibitor	Inhibitory type	FLT3 kinase inhibition IC50 (nmol/L)	Non-FLT3 targets	FLT3-TKD mutation activity	Major toxicities
Sorafenib 400 mg BID	II	58	c-KIT PDGFR RAF VEGFR	No	Rash Hemorrhage Myelosuppression
Midostaurin 50 mg BID	I	6.3	c-KIT PDGFR PKC VEGFR	Yes	GI toxicity Myelosuppression
Quizartinib 30-60 mg qd	II	1.6	c-KIT	No	QTc prolongation Myelosuppression
Gilteritinib 120 mg qd	I	0.29	AXL LTK ALK	Yes	Elevated transaminases Diarrhea

Key Clinical Trials of FLT3 Inhibitors

Study	Agents	FLT3 inhibitor generation	Inhibits	N	Population	OS hazard ratio
SORAML Phase II	Sorafenib Placebo	First	ITD	267	Treatment naïve	0.82, ns
RATIFY Phase III	Midostaurin Placebo	First	ITD, TKD	717	Treatment naïve	0.78
QuANTUM-First Phase III	Quizartinib Placebo	Second	ITD	539	Treatment naïve	0.78
QuANTUM-R Phase III	Quizartinib SC	—	—	367	R/R	0.76
ARO-021 Phase III	Crenolanib Placebo	Second	ITD, TKD	510	Treatment naïve	Not yet reported
ADMIRAL Phase III	Gilteritinib SC	Second	ITD, TKD	371	R/R	0.67

OS = overall survival; SC = salvage chemotherapy; R/R = relapsed/refractory

Novatcheva ED et al. *Clin Lymphoma Myeloma Leuk* 2021;[Online ahead of print]. Rollig C et al. *Leukemia* 2021;35:2517-25. Erba HP et al. *Lancet* 2023;401:1571-83. Perl AE et al. *Blood* 2022;139(23):3366-75.

RESEARCH ARTICLE



Contemporary outcomes in *IDH*-mutated acute myeloid leukemia: The impact of co-occurring *NPM1* mutations and venetoclax-based treatment

Curtis A. Lachowicz¹ | Patrick K. Reville¹ | Hagop Kantarjian² |
Elias Jabbour² | Gautam Borthakur² | Naval Daver² | Ghayas Issa² |
Ken Furudate³ | Tomoyuki Tanaka³ | Sherry Pierce² | Guilin Tang⁴ |
Keyur P. Patel⁴ | Jeffrey Medeiros⁴ | Hussein A. Abbas² | Fadi Haddad² |
Daniel Hammond² | Nicholas J. Short² | Abhishek Maiti² | Musa Yilmaz² |
Koji Sasaki² | Koichi Takahashi² | Naveen Pemmaraju² |
Marina Konopleva² | Guillermo Garcia-Manero² | Farhad Ravandi² |
Tapan M. Kadia² | Sanam Loghavi⁴ | Courtney D. DiNardo²

Am J Hematol 2022;97(11):1443-52.

Pivotal Studies of IDH Inhibitor Monotherapy for AML with IDH Mutations

IDH inhibitor	Enasidenib	Ivosidenib		Olutasidenib
FDA approval	Aug 1, 2017	July 20, 2018	May 2, 2019	December 1, 2022
Setting	Relapsed/refractory	Relapsed/refractory	Newly diagnosed	Relapsed/refractory
Trial	AG221-C-001	AG120-C-001	AG120-C-001	Study 2102-HEM-101
IDH mutation	IDH2	IDH1	IDH1	IDH1
N	109	179	28	147
Dose	100 mg qd	500 mg qd	500 mg qd	150 mg BID
CR + CRh	23%	30.4%	42.9%	35%
Median duration of response	8.2 mo	8.2 mo	Not estimable	25.9 mo
Median OS, ITT	9.3 mo	8.8 mo	29.3 mo	Not reported

CRh = CR with partial hematologic recovery; OS = overall survival; ITT = intent to treat

Stein EM et al. *Blood* 2017;130(6):722-31; Enasidenib PI, rev 11/2020; DiNardo CD et al. *N Engl J Med* 2018;378(25):2386; Roboz GJ et al. *Blood* 2020;135(7):463-71; Ivosidenib PI, rev 8/2021; de Botton S et al. ASCO 2023;Abstract 7012; Olutasidenib PI, rev 12/2022.

FDA Approves Olutasidenib for Relapsed or Refractory Acute Myeloid Leukemia with a Susceptible IDH1 Mutation

Press Release: December 1, 2022

“On December 1, 2022, the Food and Drug Administration approved olutasidenib capsules for adult patients with relapsed or refractory acute myeloid leukemia (AML) with a susceptible IDH1 mutation as detected by an FDA-approved test.

[The] FDA also approved the RealTime IDH1 Assay to select patients for olutasidenib.

Approval was based on Study 2102-HEM-101 (NCT02719574), an open-label, single-arm, multicenter clinical trial that included 147 adult patients with relapsed or refractory AML with an IDH1 mutation confirmed using the above assay. Olutasidenib was given orally, 150 mg twice daily, until disease progression, unacceptable toxicity, or hematopoietic stem cell transplantation. Efficacy was established on the rate of complete remission (CR) plus complete remission with partial hematologic recovery (CRh), the duration of CR+CRh, and the rate of conversion from transfusion dependence to independence.

The prescribing information contains a Boxed Warning alerting health care professionals and patients about the risk of differentiation syndrome which can be fatal.”



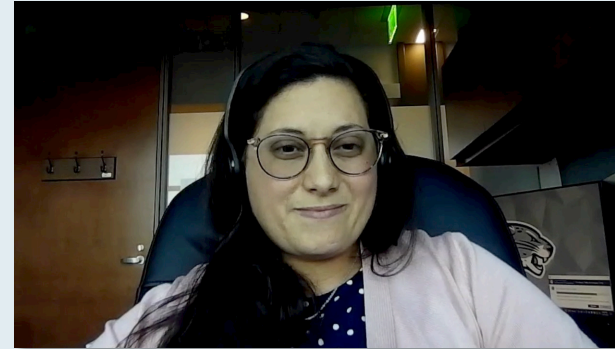
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Practical Perspectives: Investigators Discuss Current Management and Actual Cases of Relapsed/Refractory Metastatic Colorectal Cancer

A CME/MOC-Accredited Virtual Event

Wednesday, September 20, 2023

5:00 PM – 6:00 PM ET

Faculty

Kristen K Ciombor, MD, MSCI

J Randolph Hecht, MD

Moderator

Neil Love, MD

Thank you for joining us!

Please take a moment to complete the survey currently up on Zoom. Your feedback is very important to us. The survey will remain open for 5 minutes after the meeting ends.

CME and MOC credit information will be emailed to each participant within 5 business days.