Acute Myeloid Leukemia (AML): Diagnosis, Treatment and Side Effect Management

LEARNING OBJECTIVES

- Describe the various types and subtypes of AML
- Identify tests used to diagnose disease and monitor treatment of AML
- Explain the overarching goals of treatment for AML
- Explain approved and emerging treatment options for AML, including stem cell transplantation, and the role of clinical trials
- Describe strategies to manage treatment side effects as well as potential long-term and late effects of treatments for AML
- · Describe the healthcare professional's role in managing patients with AML



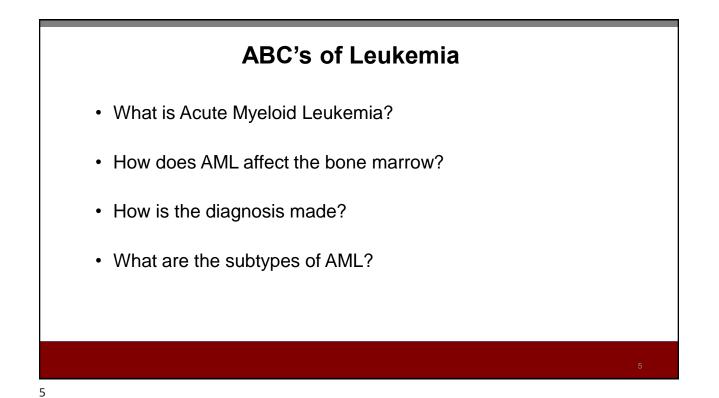
LEUKEMIA & LYMPHOMA SOCIETY*



Case

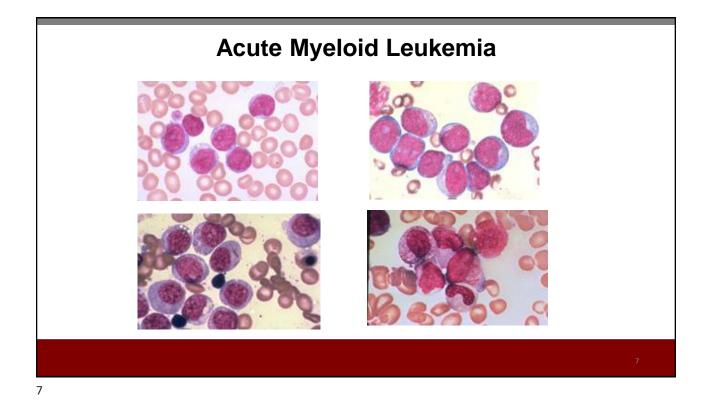
A 68-year-old woman is seen for routine exam and noted to have low platelets with circulating blasts. She is referred to the hematologist who performs a bone marrow biopsy. The results confirm the diagnosis of AML with complex cytogenetics. Molecular mutations reveal IDH2 mutation.

- What is her prognostic risk classification?
- What would be the treatment of choice initially?
- What about treatment if there is a relapse?



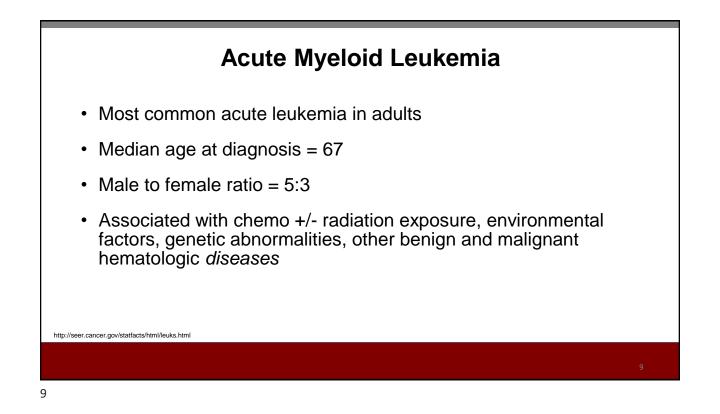
Diagnosis and Workup of AML

- Bone marrow aspirate and biopsy morphologic evaluation
- Flow-cytometry
- Karyotype analysis (cytogenetics)
- Mutational analysis





- M0: Myelocytic leukemia without maturation
- M1: Myelocytic leukemia with minimal differentiation
- · M2: Myelocytic leukemia with maturation
- M3: Promyelocytic leukemia
- M4: Myelomonocytic leukemia
- M5: Monocytic leukemia
- M6: Erythroleukemia
- M7: Megakaryocytic leukemia

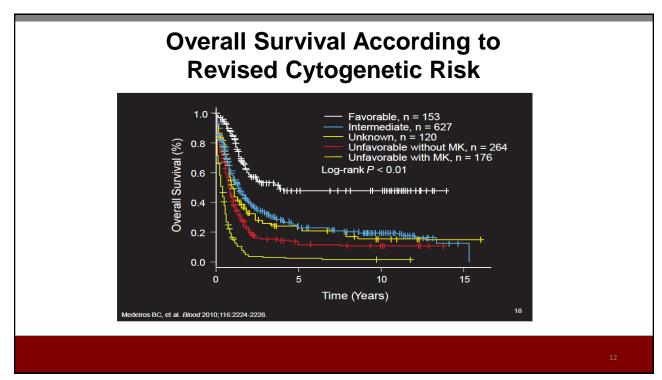


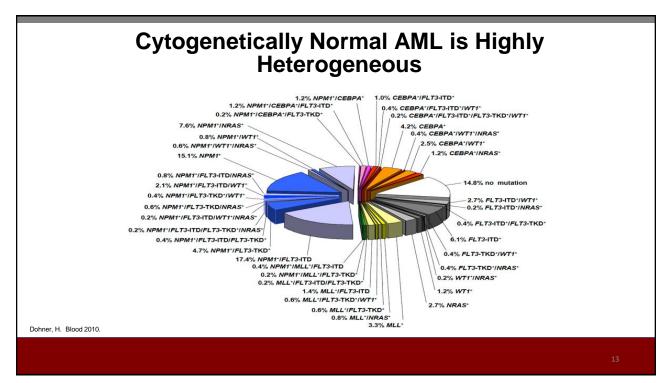
Standard Prognostic Criteria for Non-M3 AML

- Age
- Subtype of AML
- Cytogenetics
- Mutational profiling of AML
- Clinical factors
 - Performance status
 - Lactate dehydrogenase (LDH)
 - Creatinine

Current opinion in hematology. 12(1). 62-67.

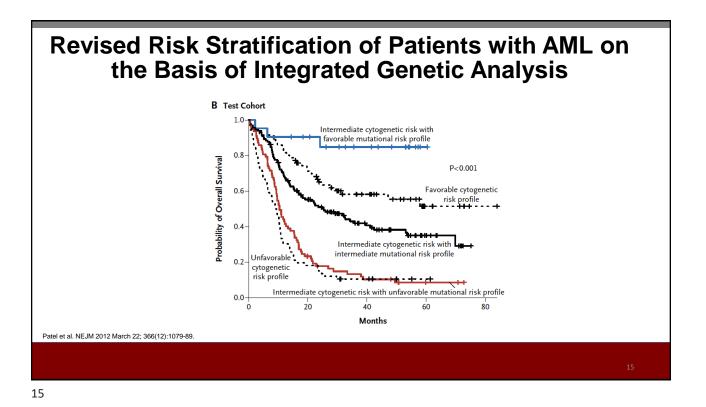
Risk Status	Cytogenetics	
Better-risk	 t(8;21)(q22;q22) inv(16)(p13;q22) t(16;16)(p13;q22) t(15;17) 	
Intermediate	 Normal cytogenetics +8 only t(3;5) t(9;11)(p22q23) Other non-defined 	
Poor-risk	 Complex karyotype (> 3 abnormalities) MK+ -5 / 5q- -7 / 7q- Other 11q23 abnormalities, excluding t(9;11) inv(3)(q21q26.2) t(3;3)(q21q26.2) t(6;9) t(9;22) 17p abnormalities 	

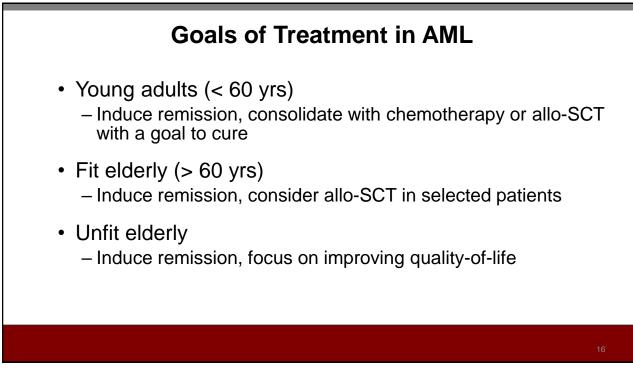




European Leukemia Net Prognostic Classification of Non-M3 AML

Genetic group	Subsets
Favorable	t(8;21)(q22;q22); RUNX1-RUNX1T1
	inv(16)(p13.1q22) or t(16;16)(p13.1;q22); CBFB-MYH11
	Mutated NPM1 without FLT3-ITD (normal karyotype)
	Mutated CEBPA (normal karyotype)
Intermediate-I*	Mutated NPM1 and FLT3-ITD (normal karyotype)
	Wild-type NPM1 and FLT3-ITD (normal karyotype)
	Wild-type NPM1 without FLT3-ITD (normal karyotype)
Intermediate-II	t(9;11)(p22;q23); MLLT3-MLL
	Cytogenetic abnormalities not classified as favorable or adverse†
Adverse	inv(3)(q21q26.2) or t(3;3)(q21;q26.2); RPN1-EVI1
	t(6;9)(p23;q34); DEK-NUP214
	t(v;11)(v;q23); MLL rearranged
	-5 or del(5q); -7; abnl(17p); complex karyotype [‡]

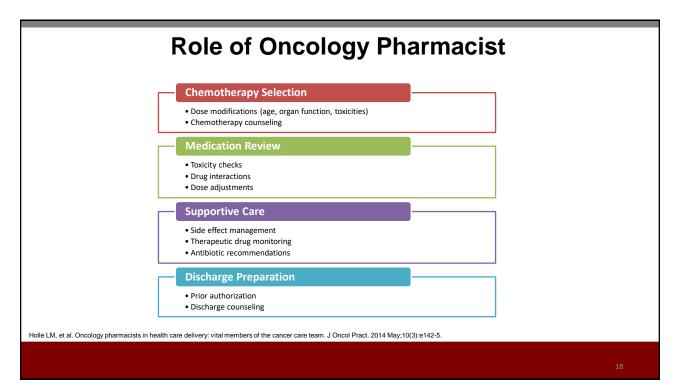


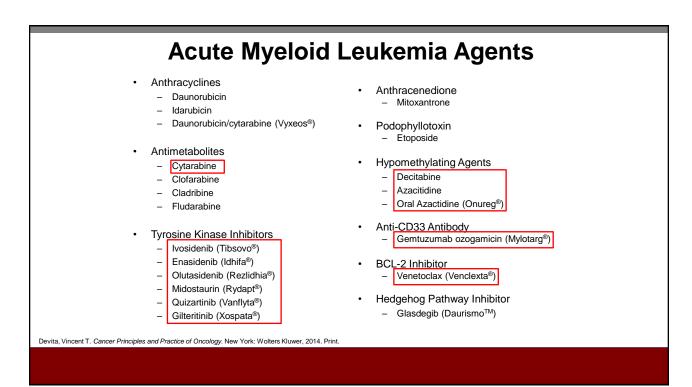


AML: Currently Effective Modalities of RX

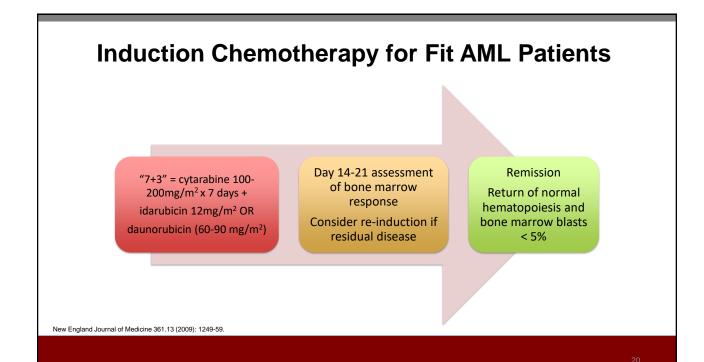
- Cytotoxic chemotherapy (7+3)
- Hypomethylating agents (azacitidine or decitabine)
- Chemo + targeted agents

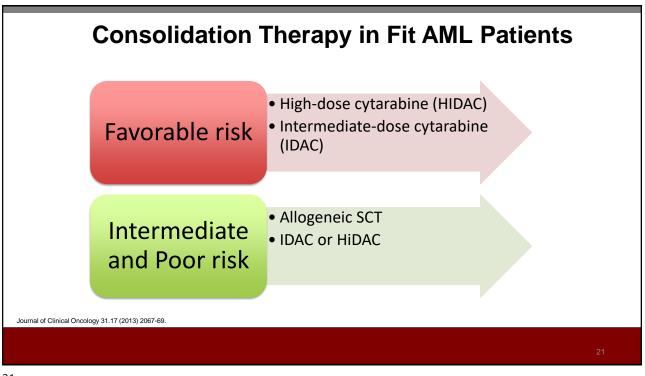
Leukemia & Lymphoma 54.9 (2013): 2003-2007. Journal of Clinical Oncology 28.4 (2010): 562-569. New England Journal of Medicine 361.13 (2009): 1249-1259.











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Daunorubicin & Idarubicin

Mechanism of action:

 Anthracyclines inhibit DNA replication and induce DNA strand breakage through several mechanisms including intercalation of DNA strands, inhibition of DNA polymerase, and topoisomerase II inhibition

Dosing / Administration:

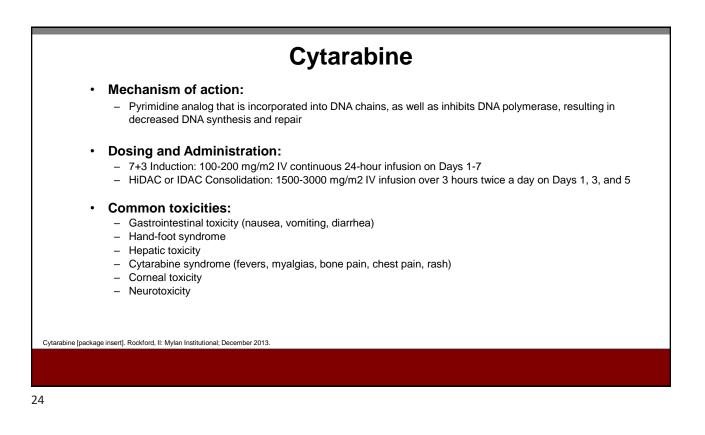
- IV push over ≤ 15 minutes or IV infusion over 15-30 minutes

Common toxicities:

- Myelosuppression
- Gastrointestinal (nausea, vomiting, diarrhea, mucositis)
- Extravasation
- Red/orange discoloration of body fluids
- Alopecia
- Cardiotoxicity

Daunorubicin [package insert]. Bedford, OH: Bedford Laboratories; June 2013. Idarubicin® [package insert]. Schaumburg, IL: APP Pharmaceuticals, LLC; December 2008.

Anthracycline Cardiotoxicity Increased reactive oxygen species formation and targeting of topoisomerase 2 in cardiomyocytes; can be acute (rare) or chronic (more common) Risk factors: cumulative anthracycline dose, history of cardiovascular (CV) disease, reduced LVEF, radiation, age, CV risk factors (smoking, hypertension, diabetes, hyperlipidemia, obesity) All patients should have an echocardiogram prior to anthracycline administration to confirm adequate left ventricular heart function (LVEF) - Caution in patients with LVEF ≤45% or those with ≥10-15% drop from baseline Several cardiotoxicity prevention and treatment strategies have been studied: Cumulative lifetime anthracycline monitoring - Continuous or extended infusion, dose fractionation Dexrazoxane administration (can also be used for extravasation) Drug Maximum Lifetime D Daunorubicin 550 mg/m² Doxorubicin 450-550 mg/m² Epirubicin 900 mg/m² Idarubicin 150 mg/m² Mitoxantrone 140 mg/m² Volkova M, et al. Anthracycline Cardiotoxicity: Prevalence, Pathogenesis, and Treatment. Curr Cardiol Rev. 2011;7(4):214-20. Bubalo J, et al. Anthracycline-Induced Cardiotoxicity in Adults. JHOP. 2018.



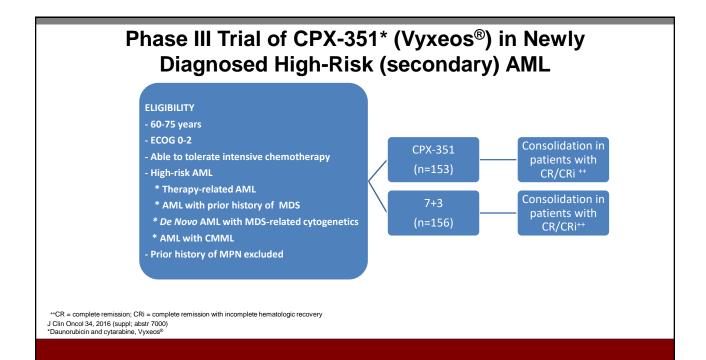
High-Dose Cytarabine

High-dose cytarabine (≥1,000 mg/m²) is associated with several toxicities that require unique prophylaxis and monitoring

- Conjunctivitis
 - · Can present as itching, irritation, burning sensation, rare: mild-moderate temporary vision loss
 - High cytarabine concentrations in the aqueous humor or deposits in the corneal epithelium can trigger inflammatory cascade and result in conjunctivitis
 - Patients should receive prophylaxis with dexamethasone 0.1% eye drops (alternative prednisolone or artificial tears), administered as 2 drops in each eye every 6 hours until 48 hours after the last cytarabine dose
- Neurotoxicity
 - High-dose cytarabine readily crosses the blood-brain barrier, and can result in cerebellar toxicity which presents as difficulty with speech, confusion, tremors, gait instability, somnolence, and rarely seizures
 - Risk factors for the development of cerebellar toxicity include age >50 years, renal impairment, and higher cytarabine doses
 - · Patients should be assessed for cerebellar toxicity prior to every dose

Cytarabine [package insert]. Rockford, II: Mylan Institutional; December 2013. Chabner, Bruce A. Cancer Chemotherapy and Biotherapy: Principles and Practice. New York: Wolters Kluwer, 2011. Print.





CPX-351 (Vyxeos [®]) Improves OS in	
High-Risk AML	

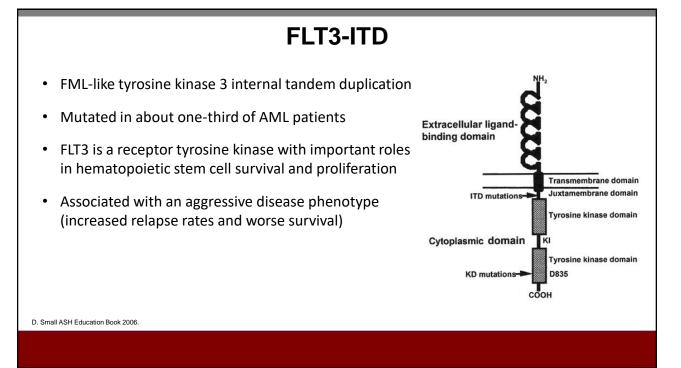
	CPX-351	7+3
CR	37.3 %*	25.6 %
CR + CRi	47.7 %*	33.3 %
Overall survival	9.56 months*	5.95 months
Percent receiving stem cell transplant	34 %	25 %
60-day mortality	13.7 %*	21.2 %
Grade 3-5 Adverse Events	92 %	91 %
Reduced Ejection Fraction	5%	5%

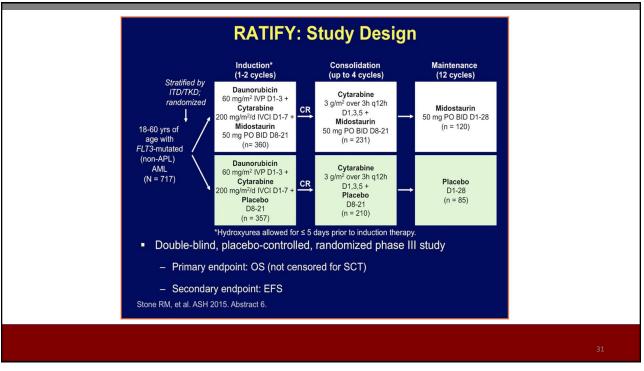
* Statistically significant

J Clin Oncol 34, 2016 (suppl; abstr 7000).

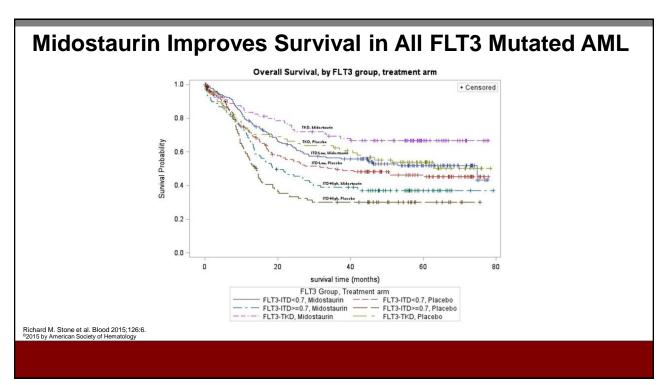
MedDRA Preferred Term	CPX-351 (n=153)	7+3 (n=151)	All Patients (n=304)
	n (%)	n (%)	n (%)
Febrile Neutropenia	104 (68)	107 (71)	211 (69)
Pneumonia	30 (20)	22 (15)	52 (17)
Нурохіа	20 (13)	23 (15)	43 (14)
Sepsis	14 (9)	11 (7)	25 (8)
Hypertension	16 (10)	8 (5)	24 (8)
Respiratory Failure	11 (7)	10 (7)	21(7)
Fatigue	11 (7)	9 (6)	20 (7)
Bacteraemia	15 (10)	3 (2)	18 (6)
Ejection Fraction Decreased	8 (5)	8 (5)	16 (5)

•	 Mechanism of Action: Combination product consisting of cytarabine: daunorubicin in a fixed 5:1 molar ratio encapsulated in a lipid formulation Liposomes are taken up by bone marrow cells and undergo degradation following internalization, releasing the active chemotherapeutic agents within the leukemia cells
	Dosing / Administration:
	 IV infusion over 90 minutes on Days 1, 3 and 5
	Common Toxicities:
	 Gastrointestinal (nausea/vomiting- 47%, diarrhea - 45%)
	 Febrile neutropenia and infections
	– Fatigue (32%)
	– Rash (54%)
	 Reduced ejection fraction or cardiotoxicity (20%)







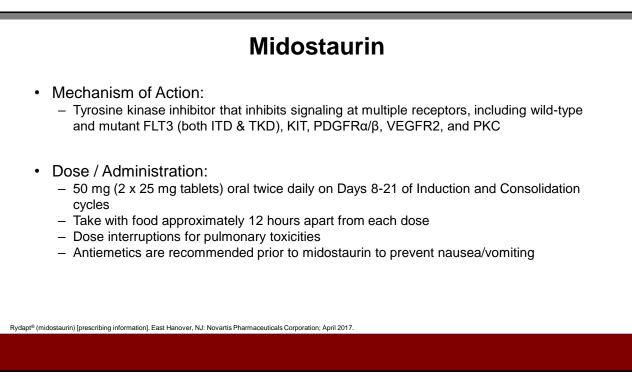


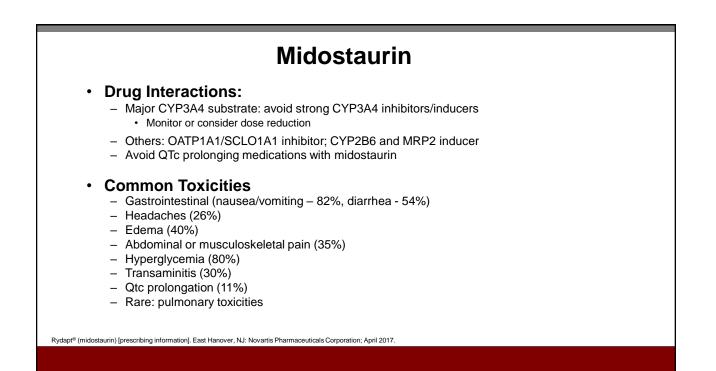
Overall Safety Profile

- No statistically significant differences were observed in the overall rate of grade 3 or higher hematologic and non-hematologic adverse events (AEs) in the midostaurin versus the placebo group.
- The most frequent all-grade AEs were febrile neutropenia, nausea, exfoliative dermatitis, vomiting, headache, and petechiae.
- · No difference in treatment-related deaths observed between groups

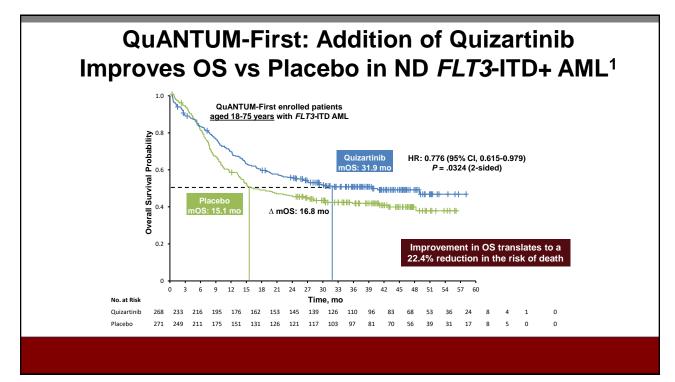
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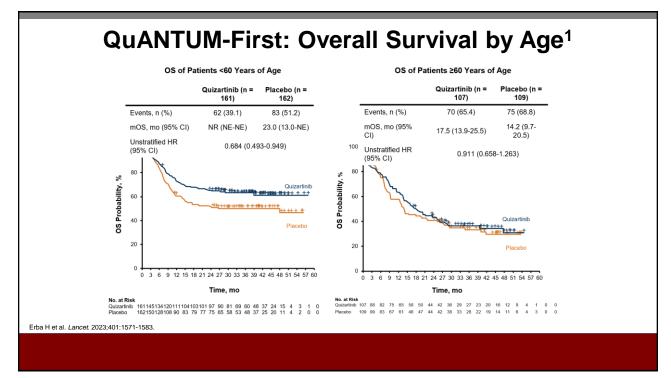
Richard M. Stone et al. Blood 2015:126:6



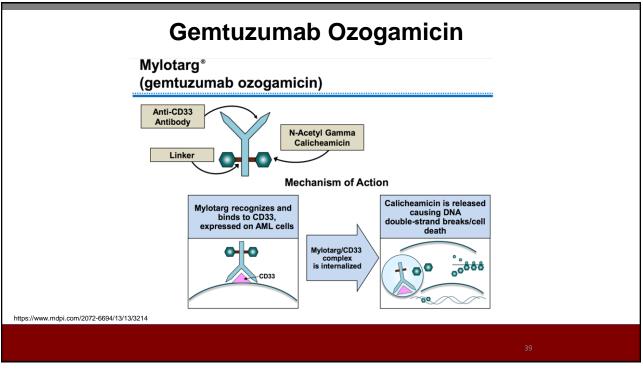




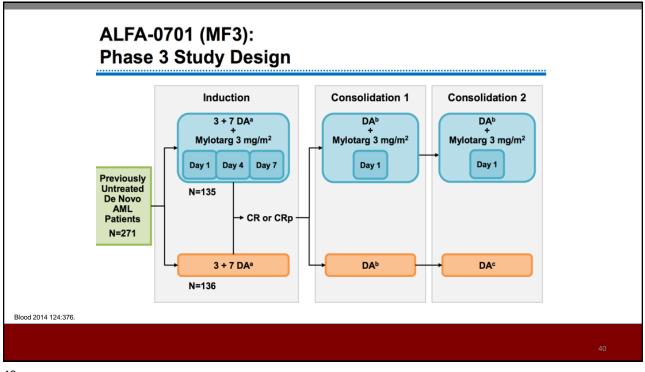


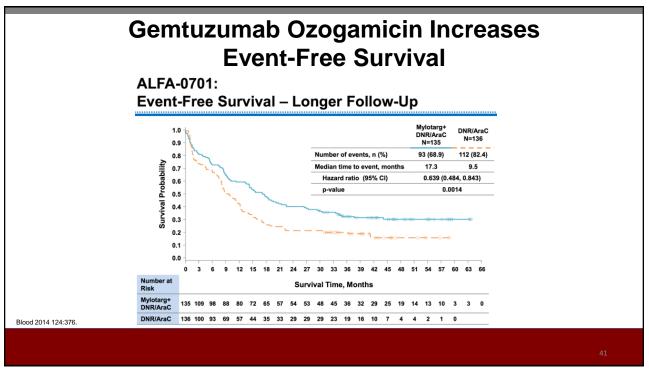


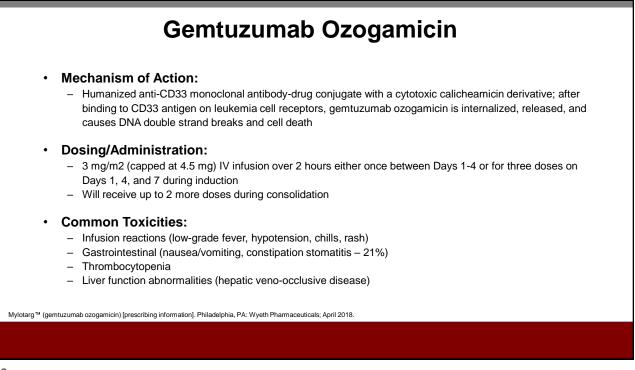
	Quizartinib	
•	 Mechanism of Action Small molecular inhibitor that suppresses FLT3 receptor autophosphorylation and signaling by binding to inactive conformation; limited to FLT3-ITD mutations 	o the
•	 Dosing / Administration 35.4 mg (2 x 17.7 mg) by mouth once daily on Days 8-21 during Induction and Days 6-19 during consolidation cycles Take with or without food at the same time each day Dose modifications and interruptions for toxicities 	
•	 Drug Interactions Major CYP3A4 substrate: dose adjust for strong CYP3A4 inhibitors Minor P-gp/ABCB1, BCRP/ABCG2 substrate Avoid QTc prolonging medications 	
•	Common Toxicities: - Qtc prolongation (14%) - Gastrointestinal (nausea/vomiting - 34%, diarrhea - 42%) - Headache (28%)	
anflyta® (qui:	zartinib) [prescribing information]. Basking Ridge, NJ: Daiichi Sankyo; July 2023.	

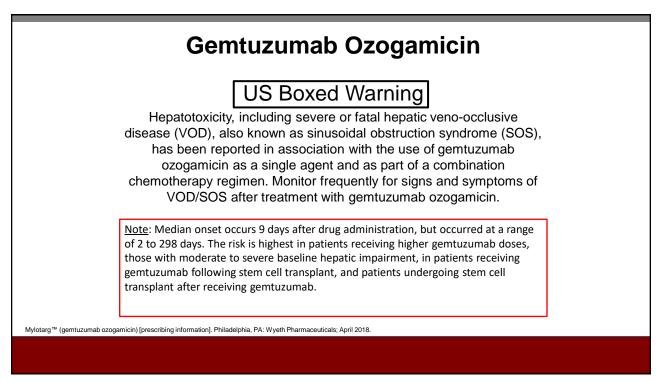


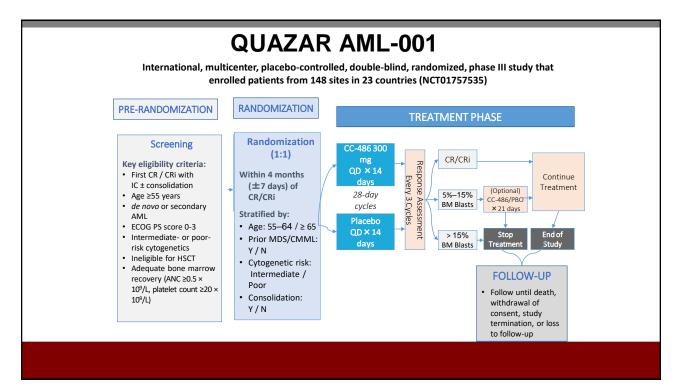


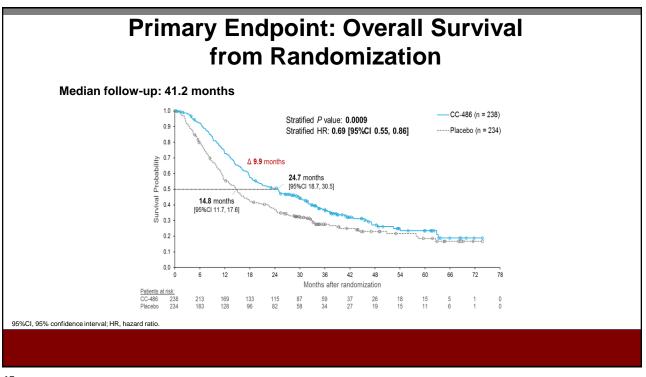




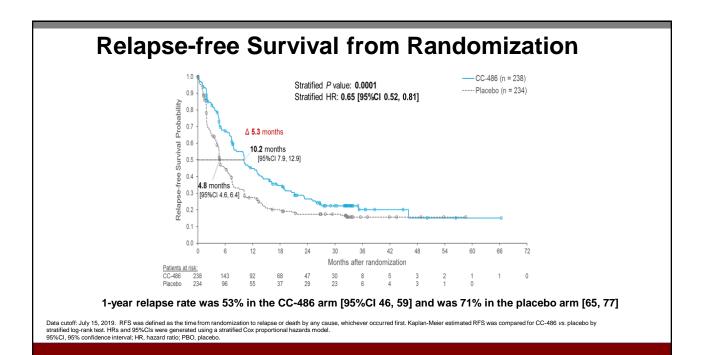












Overall Survival: Key Subgroups

				U		
				Hazard ratio	CC-486	Placebo
				[95%CI]	n/N	n/N
Age						
≥ 55 to < 65 years		-		0.72 [0.46, 1.13]	36/66	41/68
≥ 65 years				0.71 [0.56, 0.92]	122/172	130/16
Sex		-				
Male				0.74 [0.55, 1.00]	79/118	93/127
Female				0.68 [0.50, 0.93]	79/120	78/107
Status at randomization		-+-				
CR				0.71 [0.55, 0.90]	122/183	133/17
CRi				0.73 [0.44, 1.20]	33/50	30/44
Cytogenetic risk category						
Intermediate		-		0.73 [0.58, 0.93]	131/203	142/20
Poor		_		0.61 [0.36, 1.03]	27/35	29/31
Consolidation therapy						
Yes		-		0.76 [0.60, 0.97]	122/186	138/19
No				0.55 [0.34, 0.89]	36/52	33/42
ECOG PS score						
0 or 1				0.74 [0.59, 0.93]	144/214	157/21
2 or 3		-		0.46 [0.22, 1.00]	14/21	14/17
Prior MDS/CMML						
Yes				0.51 [0.23, 1.11]	15/22	13/17
No				0.73 [0.59, 0.92]	143/216	158/21
MRD status*	0.1	1	10			
Positive		Hazard Ratio [95		0.69 [0.51, 0.93]	77/103	95/116
Negative		riazaiŭ Ralio (95	7%CI]	0.81 [0.59, 1.12]	81/133	72/111
Overall (Unstratified)		Favors CC-48	6	0.72 [0.58, 0.89]	158/238	171/23

Oral Azacitidine

Mechanism of Action:

 Hypomethylating agent that inhibits methyltransferase, resulting in DNA hypomethylation, differentiation and apoptosis of malignant cells, and restoration of normal gene differentiation and proliferation

Dosing/administration:

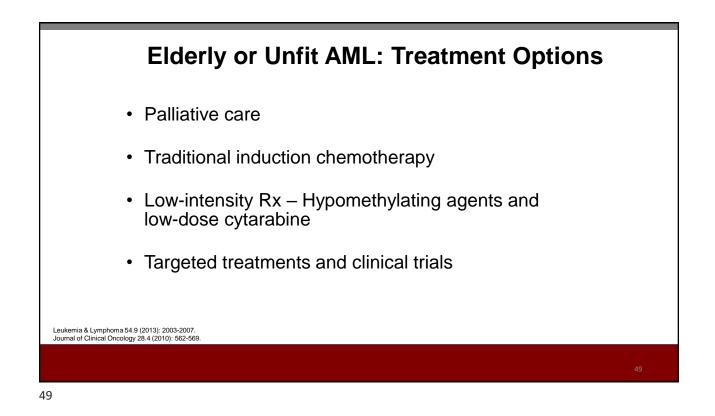
- 300 mg once daily on Days 1-14 of a 28-day cycle
- Take with or without food at approximately the same time each day
- Antiemetic should be given prior to oral azacitidine for the first two cycles
- Dose modifications and treatment delays for neutropenia, thrombocytopenia, and toxicities

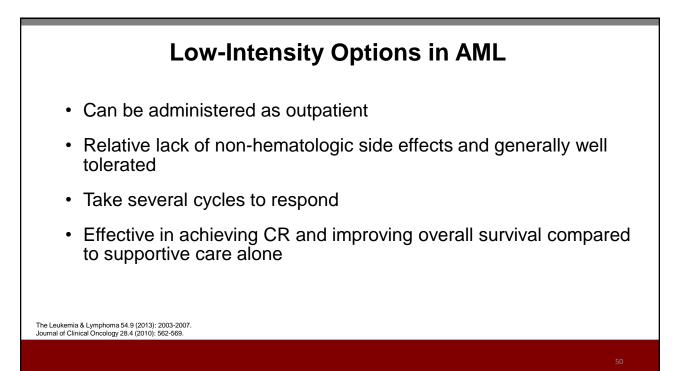
Drug Interactions: none

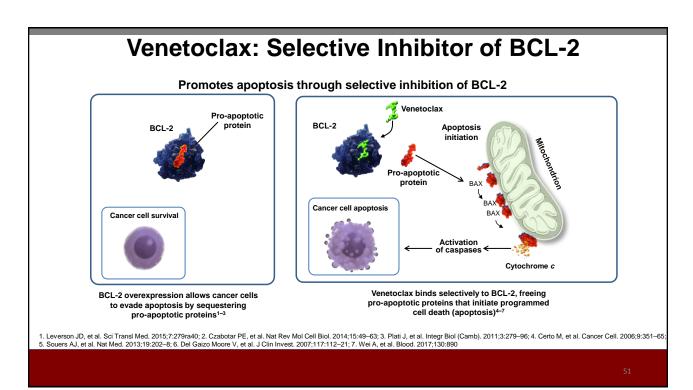
Common Toxicities:

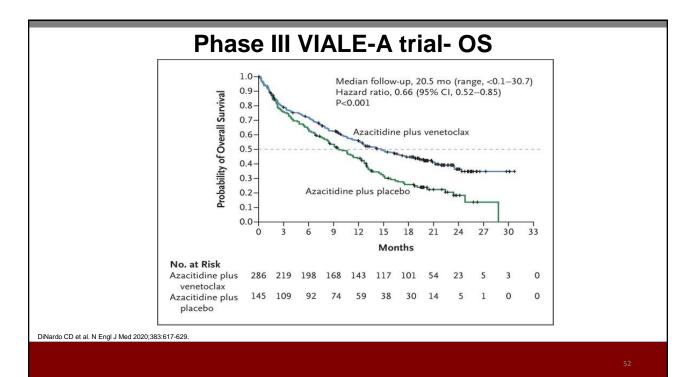
- Gastrointestinal (nausea, vomiting, diarrhea or constipation)
- Fatigue

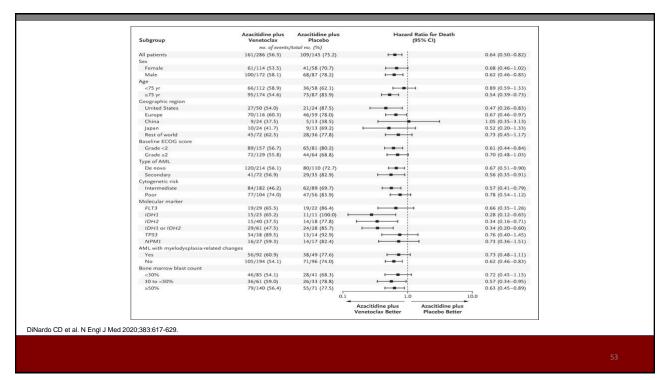
Onureg® (azacitidine) [prescribing information]. Summit, NJ: Celgene; September 2020.

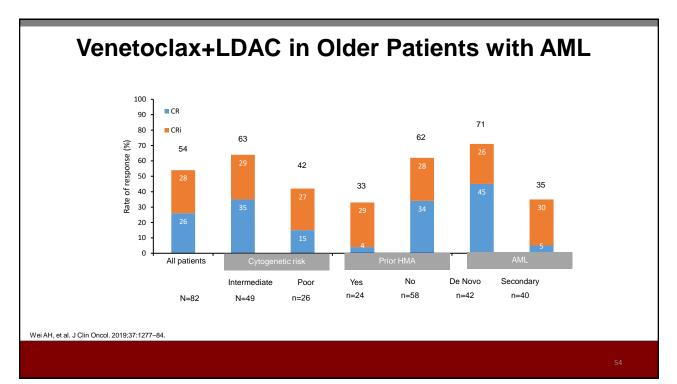












	Venetoclax
	chanism of Actions Selectively inhibits anti-apoptotic protein BCL-2, which mediates tumor cell survival and associated with chemotherapy resistance
-	 sing / Administration: AML: 100 mg on Day 1, 200 mg on Day 2, 400 mg on Day 3 With azacitidine or decitabine: continue 400 mg daily up to Day 28 With low dose cytarabine: 600 mg daily starting Day 4 up to Day 28 Administer with a meal and water; take as instructed Avoid Seville oranges, grapefruit, Star Fruit
-	 mmon Toxicities: Tumor lysis syndrome (electrolyte changes 4%-60%, true TLS 2%) Gastrointestinal (nausea/vomiting, diarrhea - 43%) Cytopenias: neutropenia (50%-87%), anemia (33%-71%) thrombocytopenia (29%-64%), Rash (18%) or fatigue (32%) Febrile neutropenia (6%)

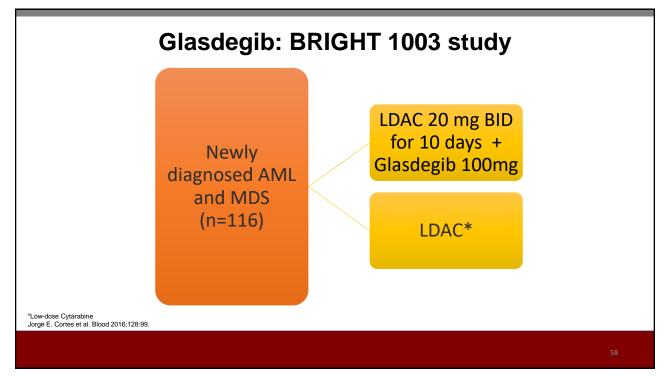
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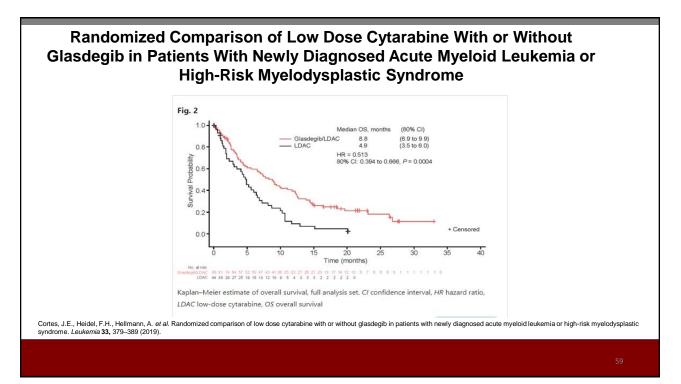
Venetoclax Drug Interactions and Dose Adjustments

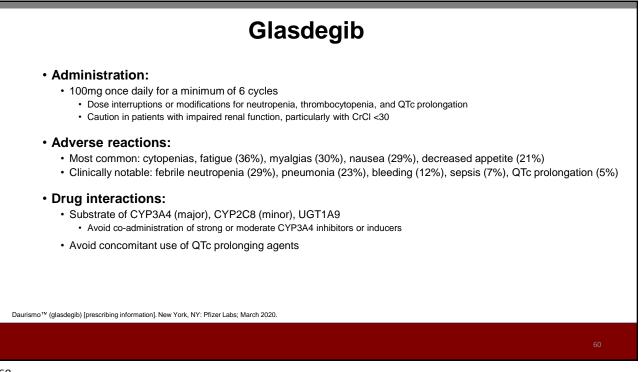
Initiation and tamp-up phase Day 1: 10 mg Day 2: 20 mg Day 3: 50 mg Day 4: 70 mg	Steady daily dose after ramp-up phase Reduce the VENCLEXTA dose to 70 mg	Note: AVOID
Day 2: 20 mg Day 3: 50 mg		Note: AVOID
		venetoclax with stro
Day 1: 10 mg Day 2: 20 mg Day 3: 50 mg Day 4: 100 mg	Reduce the VENCLEXTA dose to 100 mg	or moderate CYP3 inducers! Examples: rifampir
Reduce the VENCLEXT.	A dose by at least 50%	phenytoin, St. Johr Wort, carbamazepi
	Day 2: 20 mg Day 3: 50 mg Day 4: 100 mg Reduce the VENCLEXT	Day 2: 20 mg Day 3: 50 mg Day 4: 100 mg

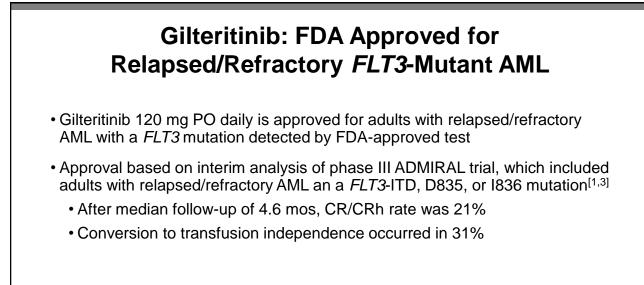
•	 Mechanism: Hypomethylating agents that inhibit methyltransferase, resulting in DNA hypomethylation, differentiation and apoptosis of malignant cells, and restoration of normal gene differentiation and proliferation
•	 Dosing / Administration: Azacitidine: 75 mg/m2 IV infusion between 10-40 minutes or SQ injection on Days 1-7 (schedule varies) Give prophylactic antiemetic prior to azacitidine
	 Decitabine: 20 mg/m2 IV infusion over 1-3 hours on Days 1-5 (sometimes Days 1-10) Minimal emetic risk – no routine prophylaxis
•	 Common toxicities: Myelosuppression Gastrointestinal (nausea, vomiting, diarrhea or constipation) More common with azacitidine than decitabine
	 Peripheral edema Fatigue or dizziness



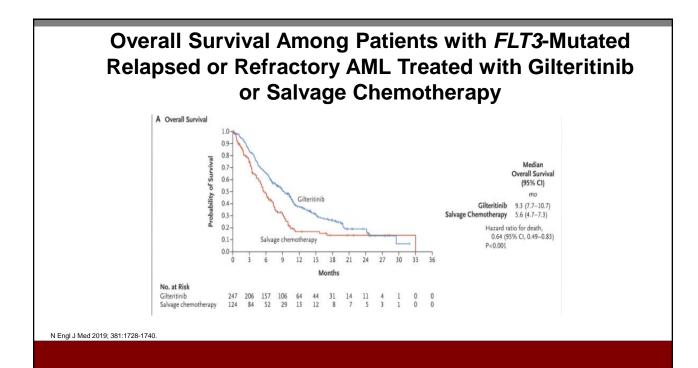




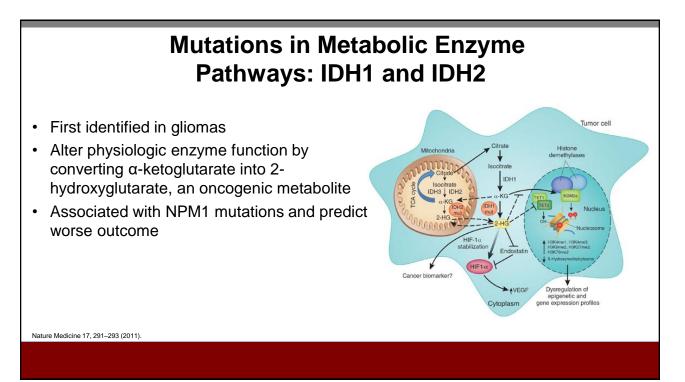




 Gilteritinib PI. 3. Gorcea. Future Oncol. 2018;14:1995. 	1. Gilteritinib PI.	3. Gorcea. Future Oncol. 2018;14:1995.
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•	Mechanism of Action:
	 Tyrosine kinase inhibitor that inhibits FLT3 receptor signaling of both FLT3 and TKD mutations
•	Dosing/Administration:
	 120 mg (3 x 40 mg tablets) oral once daily with or without food
	 Dose interruptions and modifications for differentiation syndrome, pancreatitis, QTc prolongation
•	Drug Interactions:
	 Major CYP3A4 substrate
	 Monitor or consider dose reduction for toxicity when using concomitantly with strong or moderate inhibitors of CYP3A4
	 Minor P-gp/ABCB1 substrate Avoid concomitant use of QTc prolonging medications when possible
	 Avoid concommant use of QTC prolonging medications when possible May decrease effect of SSRIs (e.g. escitalopram, fluoxetine, sertraline)
•	Common Toxicities:
	 Gastrointestinal (nausea/vomiting - 30%, diarrhea - 35%)
	 Fatigue (44%) or myalgia/arthralgias (50%)
	 Qtc prolongation (9%)
	– Pancreatitis (5%)
	 Rare: Differentiation syndrome (3%), PRES (1%)
ata® (gilteritinib) [prescribing information]. Northbrook, IL: Astellas Pharma US, Inc; May 2019.



AG-221 (Enasidenib) in IDH2-Mutated AML

SIDE EFFECTS

Nausea (18%)

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•

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Indirect hyperbilirubinemia (19%)

Differentiation syndrome?

Leucocytosis (treatment-related N=7)

- 198 patients treated on phase I and II study
- Median age 69 years
- 70% patients had relapsed/refractory disease, 64% had more than 2 treatment regimens
- Median treatment duration 6 months
- Highest dose 450 mg
- MTD* not reached
- Response rate seen in all types of IDH2 mutation
- Among responders, ANC increased by 1 month of therapy

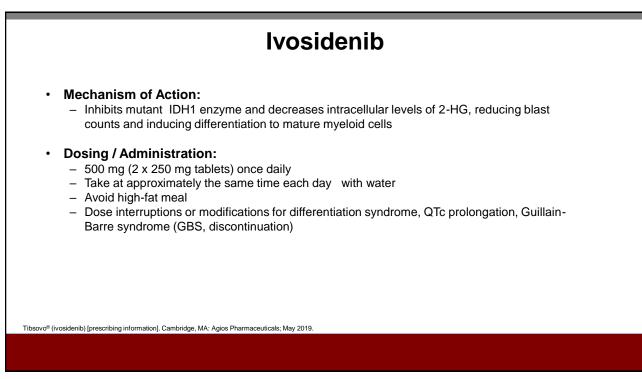
MTD= Maximum Tolerated Dose Stein et al Blood, 126(23), 323.

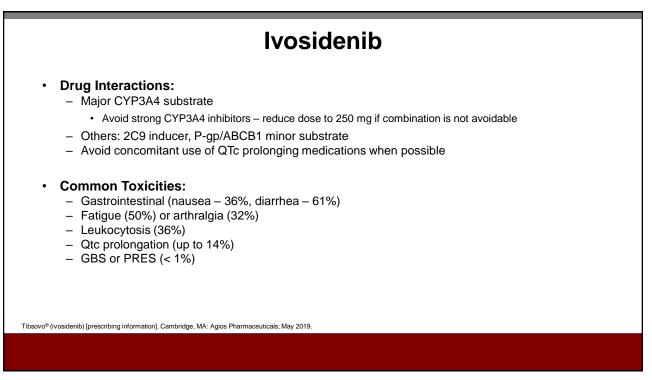
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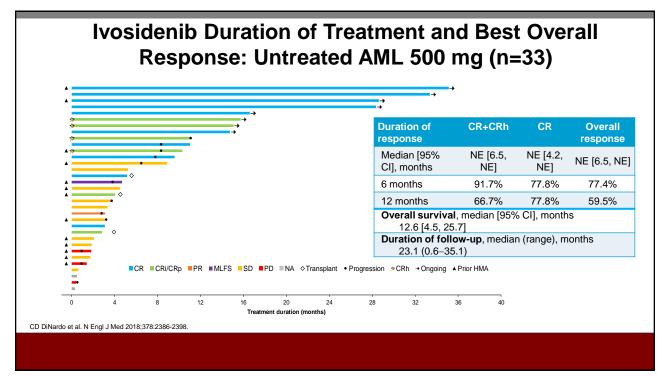
Response					
	RR-AML (n = 159)	Untreated AML (n = 24)	MDS (n = 14)	All (N = 209)	
Overall Response (CR, CRp, CRi, mCR, PR)	59 (37%)	10 (42%)	7 (50%)	79 (38%)	
CR	29 (18%)	4 (17%)	3 (21%)	37 (18%)	
CRp	1 (1%)	1 (4%)	1 (7%)	3 (1%)	
CRi	3 (2%)	o	0	3 (1%)	
mCR	9 (6%)	1 (4%)	3 (21%)	14 (7%)	
PR	17 (11%)	4 (17%)	0	22 (11%)	
SD	72 (45%)	9 (38%)	6 (43%)	96 (46%)	
PD	10 (6%)	1 (4%)	0	11 (5%)	
Not evaluable	18 (11%)	4 (17%)	1 (7%)	23 (11%)	

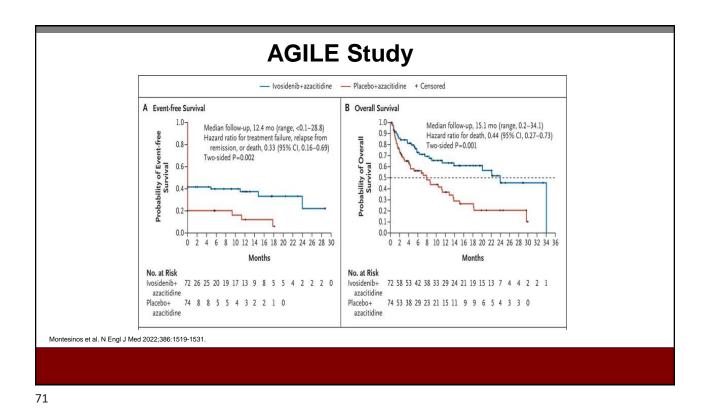
Presented By Eytan Stein at 2016 ASCO Annual Meeting.

Enasidenib **Mechanism of Action:** - Targets mutant and wild-type IDH2 (targets mutant IDH2 at 40-fold lower concentrations), reducing abnormal histone hypermethylation and restoring normal myeloid differentiation **Dosing/Administration:** 100 mg once daily without regard to food Take at approximately the same time each day with a full glass of water _ Dose interruptions or modifications for differentiation syndrome, hepatotoxicity ٠ **Drug interactions:** Extensive CYP substrate: CYP3A4 CYP1A2, CYP2B6, CYP2C19, CYP2C8, CYP2C9, CYP2D6, - Extensive UGT substrate: UGT1A1, UGT1A3, UGT1A4, UGT1A9, UGT2B15, UGT2B7 **Common Toxicities:** - Gastrointestinal (nausea/vomiting, diarrhea) - Increased bilirubin Decreased appetite Idhifa® (enasidenib) [prescribing information]. Summit, NJ: Celgene Corporation; August 2017.

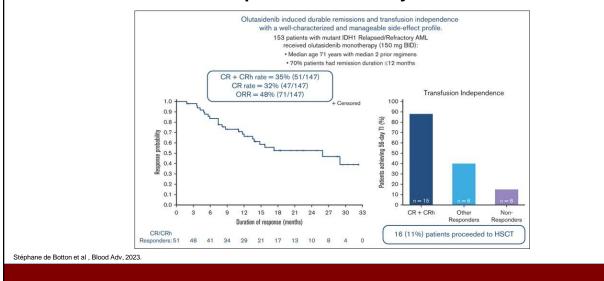




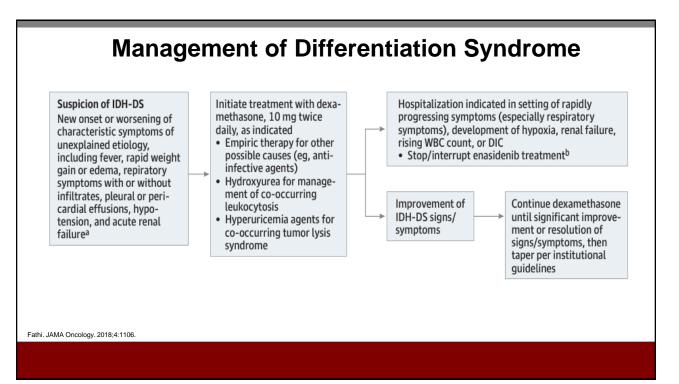




Olutasidenib (FT-2102) Induces Durable Complete Remissions in Patients with Relapsed or Refractory IDH1-Mutated AML



Olutasidenib Mechanism of Action: Small molecule inhibitor of IDH1 enzyme, resulting in decrease in 2-HG production and restoration of normal cell differentiation **Dosing / Administration:** 150 mg by mouth twice daily - Take on an empty stomach (at least 1 hour before or 2 hours after meal) - Dose interruptions and modifications for differentiation syndrome, hepatotoxicity or significant toxicity **Drug Interactions:** Major CYP3A4 substrate Minor substrate of CYP1A2, CYP2C19, CYP2C8, CYP2C9 **Common Toxicities:** Gastrointestinal (nausea/vomiting - 38%, diarrhea - 20%, constipation - 26%) - Transaminitis (47%) or increased serum bilirubin (26%) Fatigue/malaise (36%) or arthralgias (28%) Rash (24%) Rare: Differentiation syndrome (16%) Rezlidhia® (olutasidenib) [prescribing information]. New York, NY: Pfizer Labs; March 2020.



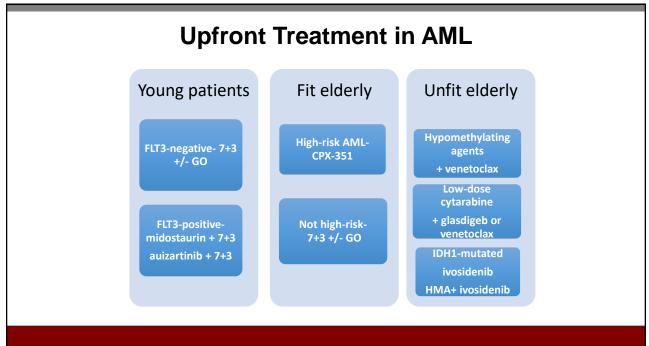
Financial Assistance Programs

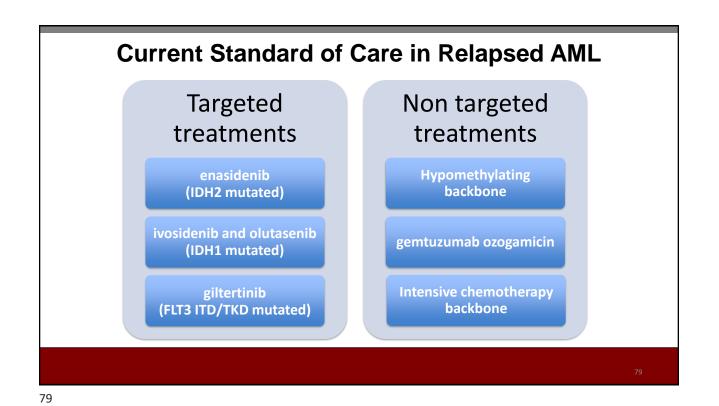
- The Leukemia and Lymphoma Society offers patients various types of financial support
 - Please visit <u>https://lls.org/support-resources/financial-support</u>, call 877-557-2672, or email <u>FinancialAssistance@LLS.org</u>
- · Other charitable grants or advocacy groups
 - Healthwell
 - Cancer Care
 - American Cancer Society
 - Patient Access Network
 - Cancer Support Community
 - Good Days

Financial Assistance Programs		
Medication	Patient Assistance Programs Provides support to patients with no or inadequate insurance meeting certain income qualifications	Co-Pay Card Programs Reduces monthly co-pay* for qualifying patients with commercial insurance
Midostaurin (Rydapt®)	Novartis Patient Assistance Program Rydapt [*] NOW: free 14-day supply for qualifying patients facing delays due to financial hardship	Novartis Oncology Universal Co-Pay Card Program \$10 monthly copay; \$15,000 annual benefit cap
Quizartinib (Vanflyta®)	Vanflyta Patient Assistance Program QuickStart Program: free 14-day supply for eligible patients with coverage delay ≥ 5 days	Vanflyta Co-Pay Program \$0 monthly copay; \$26,000 annual benefit cap
Venetoclax (Venclexta®)	Genentech Patient Foundation	Genentech Oncology Co-pay Assistance Program \$0 monthly copay; \$25,000 annual benefit cap
Azacitidine (Onureg®)	Bristol Myers Squibb Patient Assistance Foundation	BMS Commercial Co-Pay Program \$0 monthly copay; \$15,000 annual benefit cap
Ivosidenib (Tibsovo®)	ServierOne Patient Assistance Program Quick Start: free 30-day supply for qualifying patients with coverage delay \geq 3-5 days	ServierOne Commercial Co-Pay Program \$25 monthly copay; \$10,000 annual benefit cap
Enasidenib (Idhifa®)	Bristol Myers Squibb Patient Assistance Foundation	BMS Commercial Co-Pay Program \$0 monthly copay; \$15,000 annual benefit cap
Olutasidenib (Rezlidhia®)	Rigel One Care Patient Assistance Program Free Drug Supply: free supply up to 60-days worth for coverage delay \geq 5 days	Rezlidhia Co-Pay Program \$15 monthly copay; \$25,000 annual benefit cap
Gilteritinib (Xospata®)	Astellas Patient Assistance Program Quick Start: free 7-day supply for coverage delay ≥ 5 days	Astellas Co-Pay Program \$0 monthly copay; \$7000 annual benefit cap

Case Revisited..

- A 68-year-old woman is seen for routine exam and noted to have low platelets with circulating blasts. She is referred to the hematologist who performs a bone marrow biopsy. The results confirm the diagnosis of AML with complex cytogenetics. Molecular mutations reveal IDH2 mutation.
 - > What is her prognostic risk classification?
 - > What would be the treatment of choice initially?
 - > What about treatment if there is a relapse?





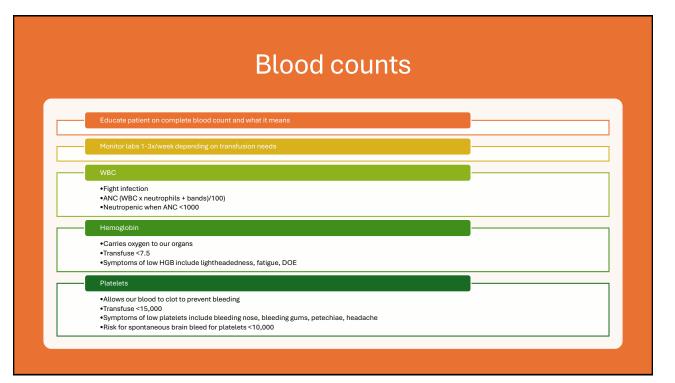




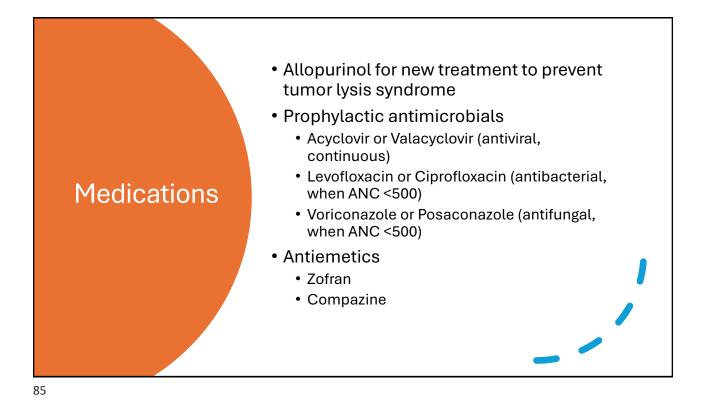
Nurses' Role in AML Management

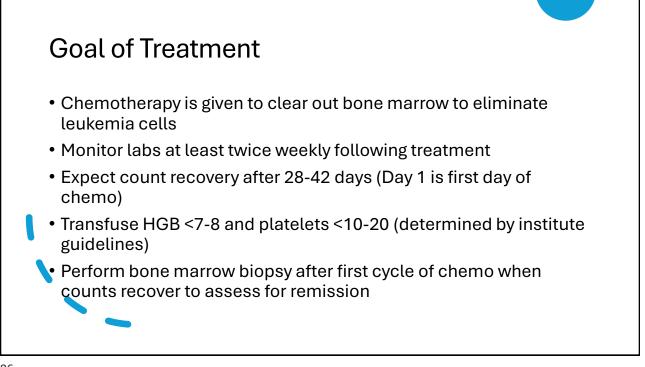
Kaitlin Rancani, MSN, CRNP Thomas Jefferson University Hospital Philadelphia, PA

Ensure	Ensure patient understands diagnosis	Diagnosis
Provide	Provide emotional support	Diagnosis of Acute Myeloid Leukemia
Find out	Find out social situation •Who do they live with? •Transportation? •Work?	
Involve	Involve social work	LEUKEIIIId



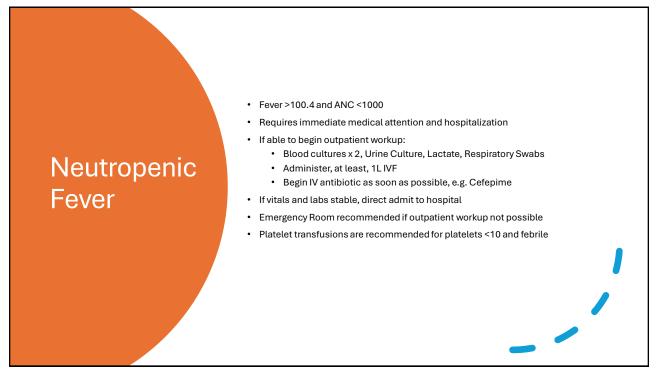


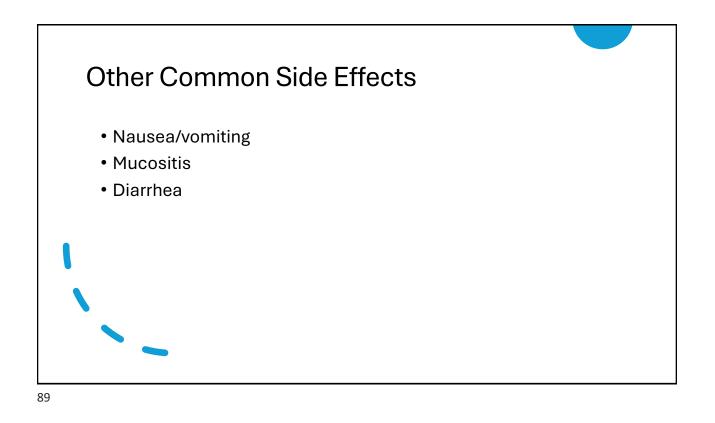


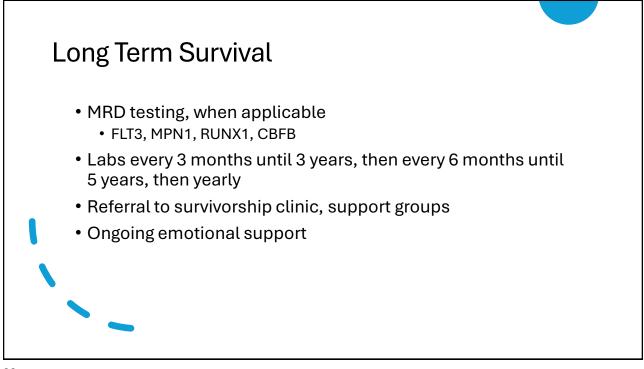


After remission

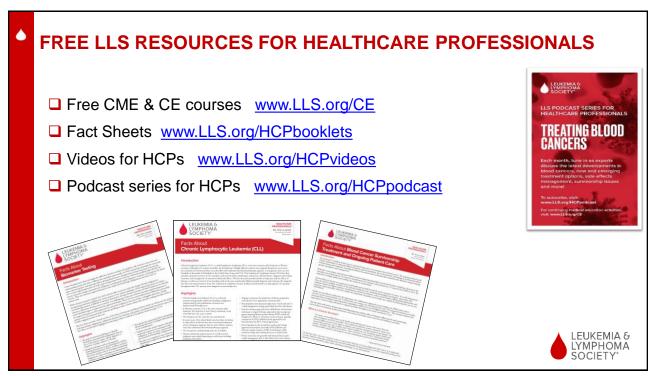
- After patient achieves remission, they will need to continue treatment with more chemotherapy and/or bone marrow transplant.
- Favorable risk AML may be cured with chemotherapy alone
 - Induction with 7+3, followed by 4 cycles of consolidation with high dose Cytarabine
- Moderate to poor risk AML will proceed to bone marrow transplant for only potential chance for cure
- If not a transplant candidate, chemotherapy is continued indefinitely

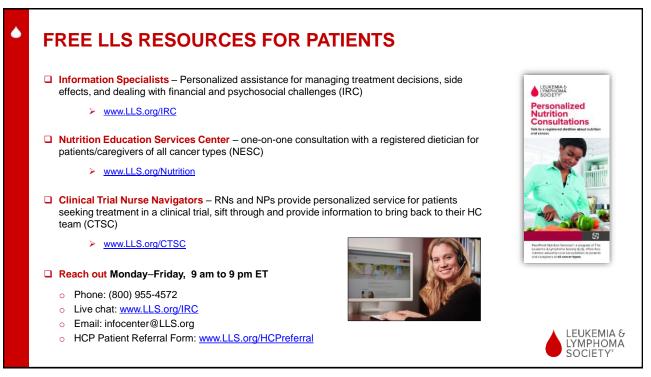






Final Thoughts Intimate RN/APP care is imperative to the success of AML patients. AML is a disease of inconvenience. Patients can be in the office 2-4x/week. Clustering and coordinating care to keep patient safe while providing some quality life is important.





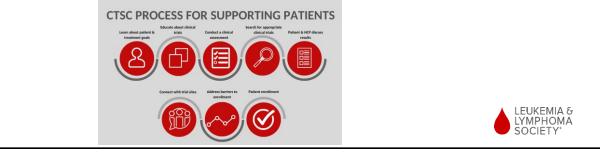
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▲ HERE TO HELP: LLS COMMITMENT

to providing education & resources to help patients access clinical trials

CLINICAL TRIAL SUPPORT CENTER

- A team of highly trained nurses and nurse practitioners experienced with hematological malignancies and clinical research.
- Provide education to patients about clinical trials, treatment options, and other disease specific information.
- Provide patients, families, and their caregivers with a professional, detailed, individualized search to discuss with their HCP.
- Provide guidance and serve as advocates throughout the clinical trial process. Help make connections between the patient and the trial site to facilitate enrollment as appropriate.
- Provide a personal connection and develop long term relationships to help better serve our patients.



FREE LLS RESOURCES FOR PATIENTS AND CAREGIVERS

U Webcasts, Videos, Podcasts, booklets:

- www.LLS.org/Webcasts
- www.LLS.org/EducationVideos
- www.LLS.org/Podcast
- www.LLS.org/Booklets
- > www.LLS.org/Leukemia

□ Support Resources

- □ Financial Assistance: <u>www.LLS.org/Finances</u>
 - Urgent Need - Patient Aid
 - Travel Assistance
- □ Other Support: <u>www.LLS.org/Support</u>
 - LLS Regions
 - Online Weekly Chats Facilitated by Oncology SW
 - LLS Community Social Media Platform
 - First Connection Peer to Peer Program







мрнома

THANK YOU

To speak with an Information Specialist or to refer a patient: 800.955.4572 email: Infocenter@LLS.org

For questions about this program, concerns, or assistance for people with disabilities or grievances, contact us at <u>Profeducation@LLS.org</u>

We have one goal: A world without blood cancers

