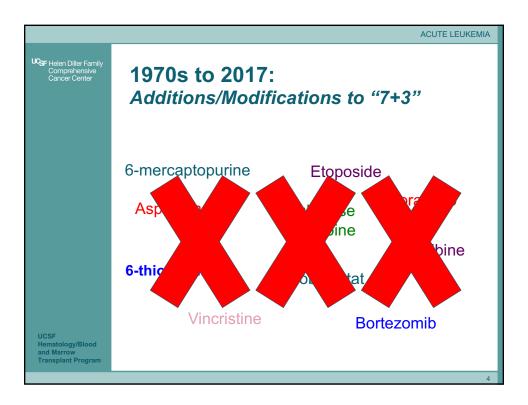
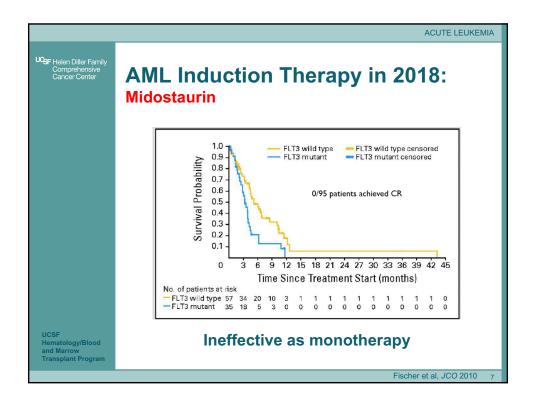


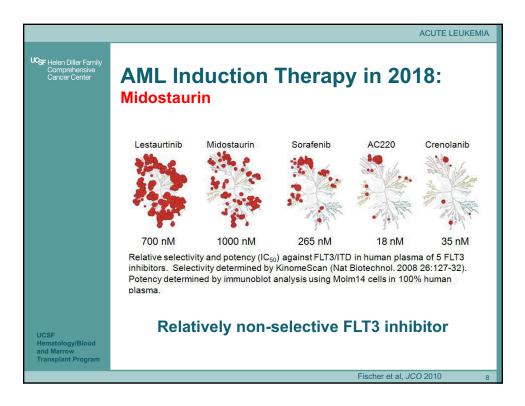
SF Helen Diller Family Comprehensive Cancer Center	28 November 1970 Papers and Originals		Manufacture 513
	Combination Chemotherapy using Cytosine Arabinoside in Adults w D. CROWTHER* * 78.0, Mar, MAC.F. ; C. J. T. BA	ith Acute My	Logenous Leukaemia .; C. P. VARTAN, # ME, MECF.
	J. M. A. WHITHHOUSE, H.M., MAC, S. W. G. HAMILTON FARLEY, J. M., ALC, J. SW C. 2000, A. M.	ONALD BODLEY S	
UCSF Hematology/Blood and Marrow			REPORT OF THE MEDICAL RESEARCH COUNCIL'S WORKING PARTY ON LUURAMMA IN ADULTS The work was serviced on the wayling of the Medical Research Council's Leukaemia Committee (Chuman: Sir Rehead Doll), The numbers of the Working Party over the period of the traila uree (Party 2010), Dr. D. A. G. Galom (Secretary), Dr. K. D. Baphane, Polycare I. J. S. Biabham, Dr. S. T. E. Callender, Polycaro V. H. Dates, D. P. Barkhan, Polycare I. A. Biabham, Dr. S. T. E. Callender, Polycaro V. M. Davidson, Dr. IV. M. Dollmore, Polycare A. S. Douglas, Dr. E. C. Easton, Polycaro V. M. Davidson, Dr. IV. M. Dollmore, Polycare A. S. Douglas, Dr. E. C. Easton, Polycaro V. M. Davidson, Dr. J. W. Dollmore, Polycare A. S. Douglas, Dr. E. C. Easton, P. R. Holts, Polycisor J. Jacks, Dr. H. E. M. Key, D. G. A. McDoueld, Dr. I. C. M. MacLennan, Dr. B. Marphy, Polytser M. G. Nelson, Dr. C. R. Neuman, M. P. Peter, D. M. C. Pile, Dr. O. S. Rauk, Dr. B. E. Robert, Dr. D. Robert, Dr. L. S. Sacker, Sir Renald Bolley Sont, Polytser W. M. Stream, Dr. J. J. Taylor, Dr. R. B. Thompson, Polytonson, C. Wachenell, Molescin, D. J. A. Wittaker and Dr. E. Withnaw.

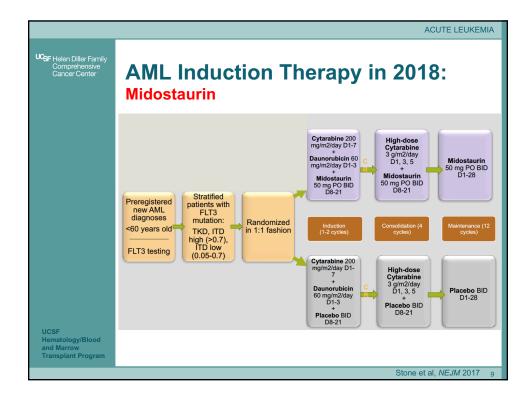


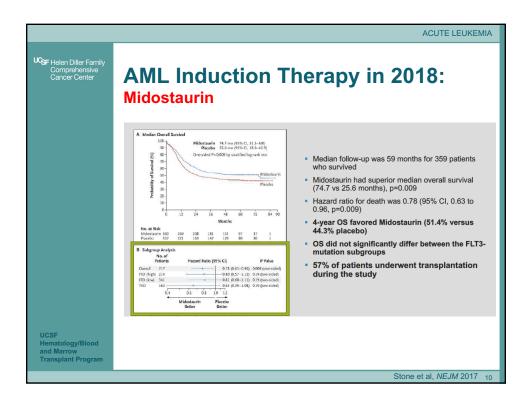


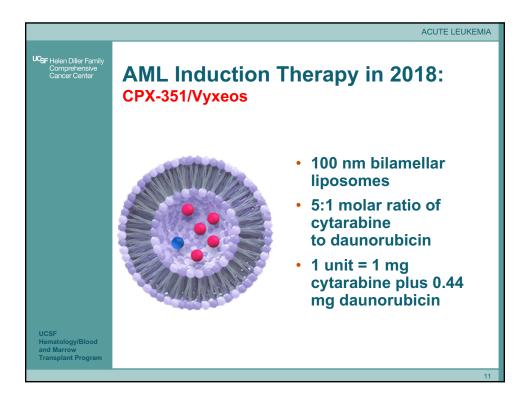


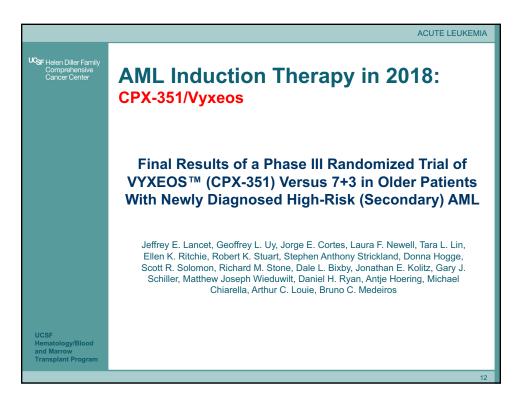


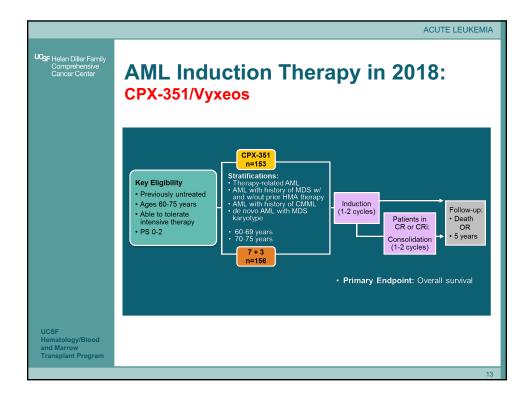




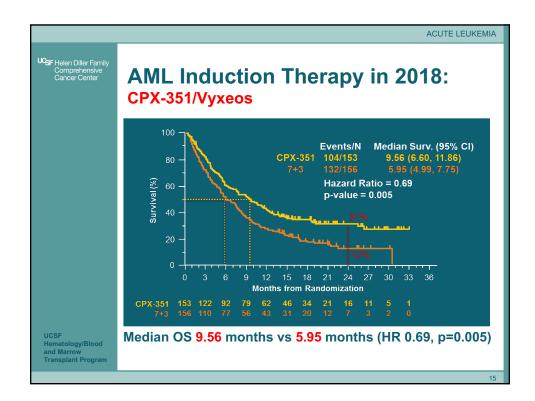


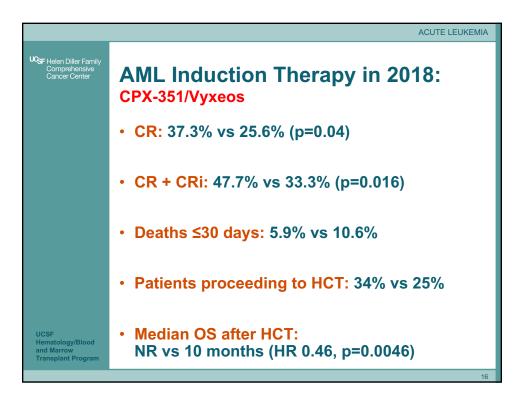


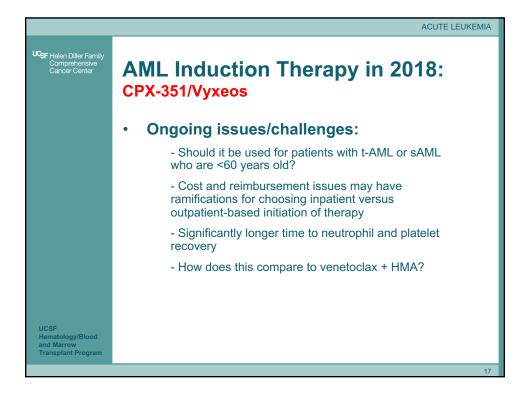


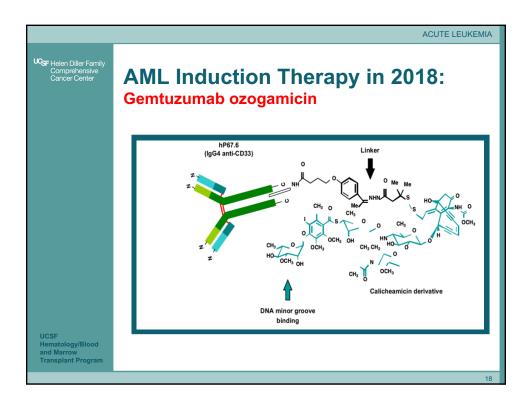


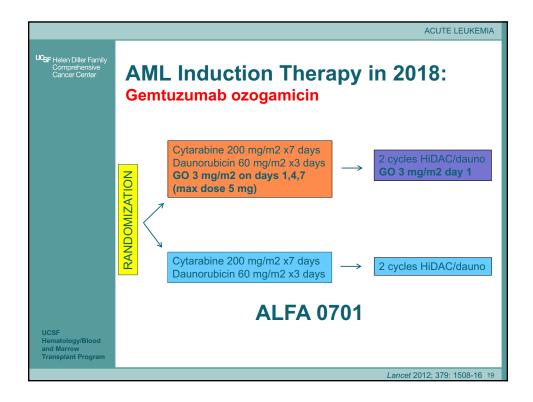
AML Inductio CPX-351/Vyxeos	in morapy	
CPX-351 1 unit = 1 mg cytarabine + 0.44 mg dau	norubicin	7 + 3
First Induction • 100 units/m ² • Days 1, 3 and 5	First	 Cytarabine: 100 mg/m²x 7 d Daunorubicin: 60 mg/m² x 3 d
• 100 units/m ² • Days 1 and 3	Re-induction	 Cytarabine: 100 mg/m²x 5 d Daunorubicin: 60 mg/m² x 2 d
Consolidation • 65 units/m ² • Days 1 and 3	Consolidation	 Cytarabine: 100 mg/m²x 5 d Daunorubicin: 60 mg/m² x 2 d

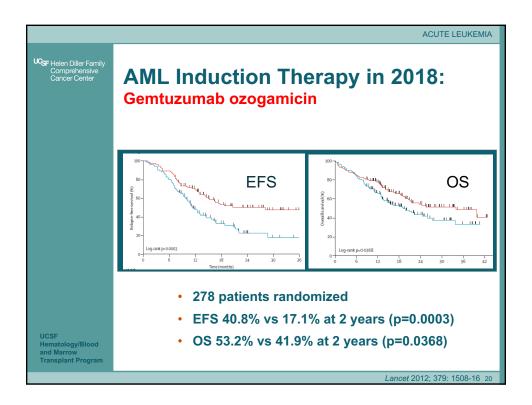


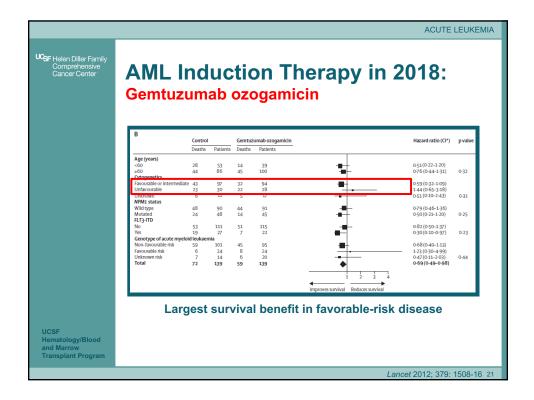




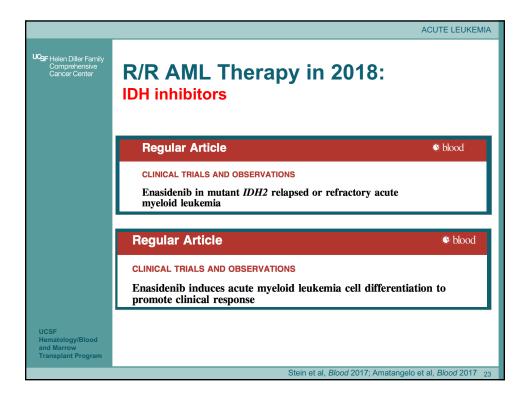


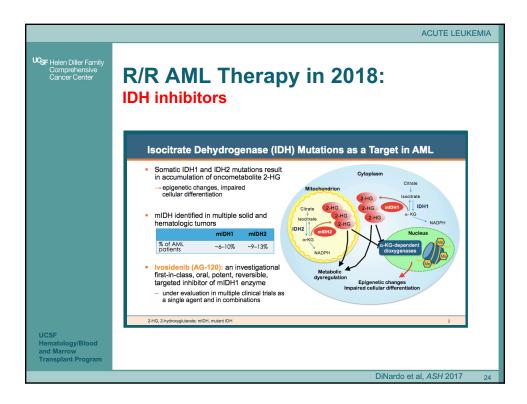


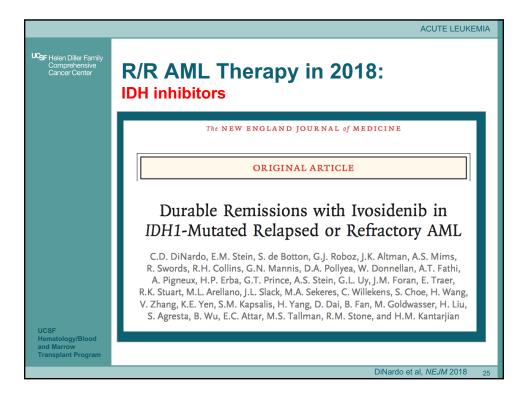




	ACUTE LEUKEMIA
UCSF Helen Diller Family Comprehensive Cancer Center	AML Induction Therapy in 2018: Gemtuzumab ozogamicin
	 Gemtuzumab should be considered for use as part of standard induction chemotherapy for patients with favorable-risk AML
	 Will require more rapid turnaround times for FISH/molecular testing (and/or more patience)
	 VOD risk with fractionated dosing remains unclear
	 Currently using sparingly when treating patients with treatment-naïve, intermediate-risk AML who may benefit from HCT in CR1
UCSF Hematology/Blood and Marrow Transplant Program	 Also approved in the R/R setting, though its role in the salvage setting is less clear



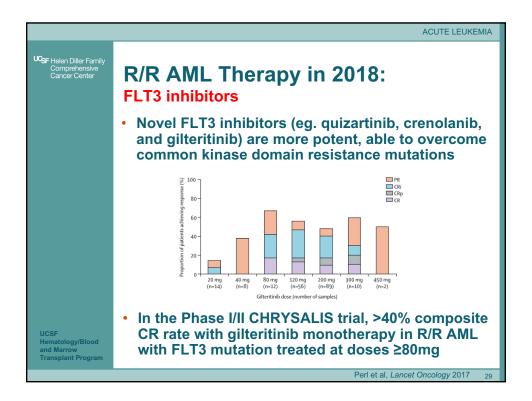


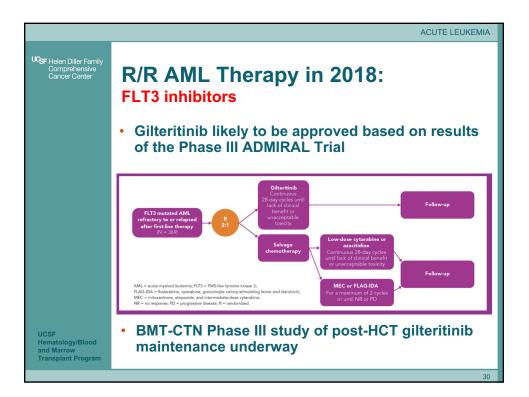


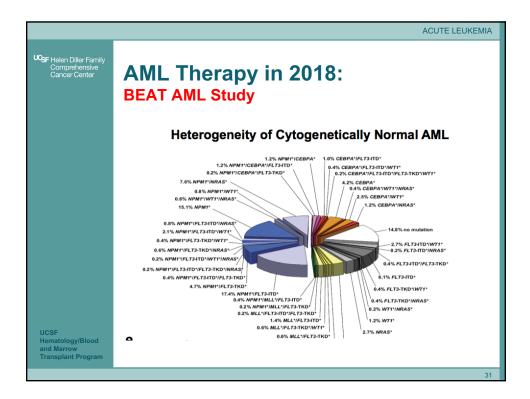
Persona in P/P AML (n=12)	-1
Response in R/R AML (n=125	Primary R/R AML Set (n=125)
CR+CRh rate, n (%) [95% CI]	38 (30.4%) [22.5, 39.3]
Time to CR/CRh, median (range) months	2.7 (0.9, 5.6)
Duration of CR/CRh, median [95% CI] months	8.2 [5.5, 12.0]
CR rate, n (%) [95% CI]	27 (21.6%) [14.7, 29.8]
Time to CR, median (range) months	2.8 (0.9, 8.3)
Duration of CR, median [95% CI] months	9.3 [5.6, 18.3]
CRh rate, n (%)	11 (8.8%)
Overall Response Rate, n (%) [95% CI]	52 (41.6%) [32.9, 50.8]
Time to first response, median (range) months	1.9 (0.8, 4.7)
Duration of response, median [95% CI] months	6.5 [4.6, 9.3]

		Durati								
			ion of Treatm ry R/R AML S	Set (n=52)	Treatment duration	Duration of Response Median (month) Duration of Response Median (month) Duration 4 months Duration 12 months • CRh • Organia	2 24 2 CR+CRh 8.2 59.3% 32.4% • Non-CR/CRh • Progression of	6 28 CR 9.3 67.5% 41.2%	Overall Response 6.5 55.0% 24.6%	
	Very	well-to	olerated		First response	First CR/CRh				
UCSF Hematology/Blood and Marrow Transplant Program		- IDH-I	ocytosis (´ Differentia prolongatio	ition Sy	ndrome	(3.9% ≥ G	rade 3	3)		

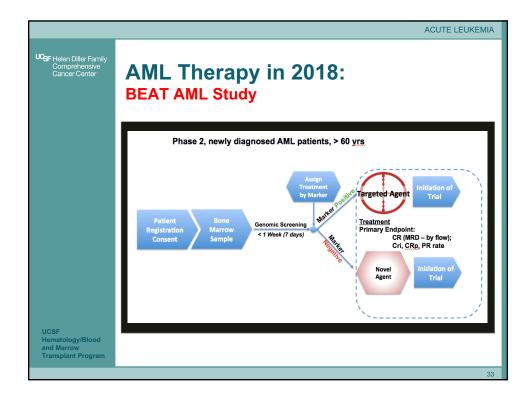
	ACUTE LEUKEMIA
UCSF Helen Diller Family Comprehensive Cancer Center	R/R AML Therapy in 2018: IDH inhibitors
	 Enasidenib (FDA approved) and Ivosidenib (not yet FDA approved) are very well-tolerated oral agents as monotherapy for R/R IDH- mutated AML with CR rates of ~20% and ORR rates of ~40%
	 Delayed time to response may make use challenging in patients with rapidly proliferative disease
UCSF Hematology/Blood and Marrow Transplant Program	Combination and front-line studies underway

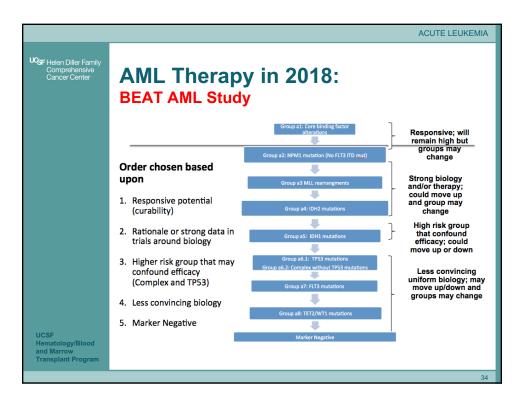






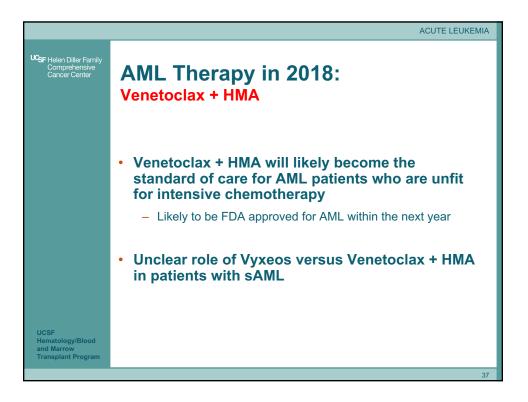
	ACUTE LEUKEMIA
WCSF Helen Diller Family Comprehensive Cancer Center	AML Therapy in 2018: BEAT AML Study
	Overall intent to yield measurable efficiencies in terms of
	Improving genomic screening of cancer patients for clinical trial entry
	 Improved timelines for drug biomarker testing
	 Precedent with Lung Map and i-SPY trials
	Multi-arm master protocol
	 Each arm independent from one another with consistent eligibility
	 Infrastructure facilitates opening new arms faster
	 Window design allows for testing of "large effects"
	 Could lead to or support other trials for accelerated approval
UCSF Hematology/Blood and Marrow Transplant Program	Bring safe and effective treatments to patients FASTER
	32

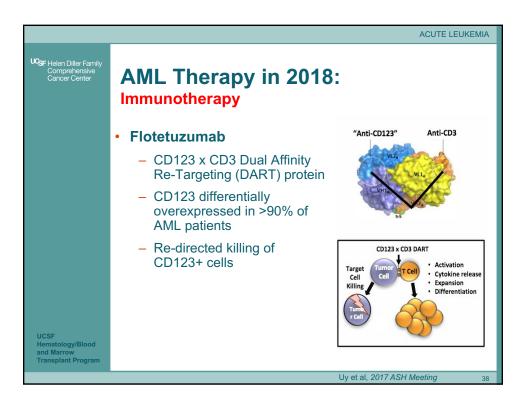


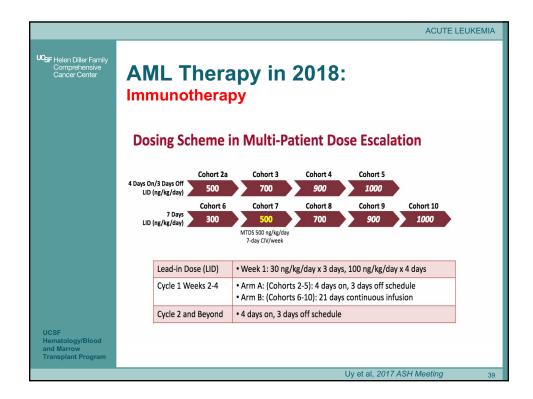


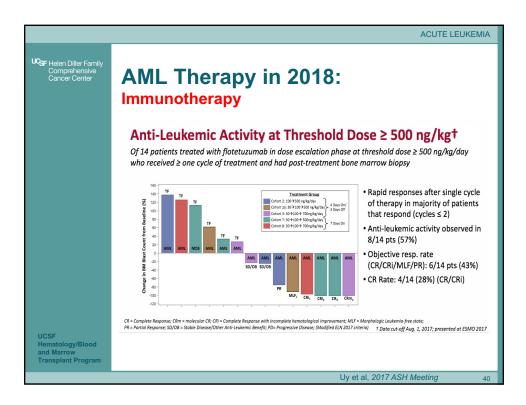
₩ Helen Diller Family Comprehensive Cancer Center		Therapy in AML Study	2018:	ACUTE LEUKEMI
	Site Number	Site Name	PI Name	
	101	The Ohio State University	Alice Mims	
	104	Oregon & Health Science University	Uma Borate/Brian Druker	
	105	Memorial Sloan Kettering	Eytan Stein	
	106	University of Colorado	Daniel Pollyea	
	110	University of Maryland	Maria Baer	
	111	University of Chicago	Wendy Stock	
	112	University of Texas Southwestern	Robert Collins	
JCSF	Summer 2018	University of California, San Francisco	Gabriel Mannis	

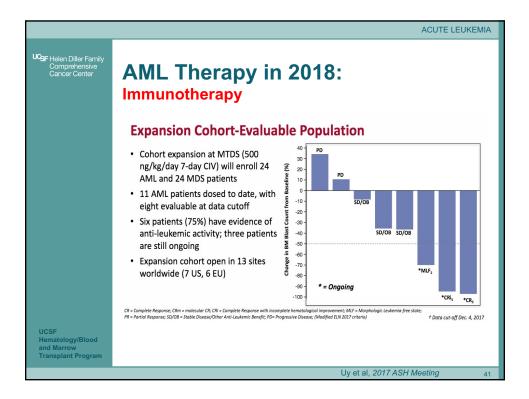
	AML Therapy in Venetoclax + HMA	n 20 ⁻	18:	ACU	TE LEUKEN
			CR/CRi	Duration of CR/CRi	
	Patient subgroup	n –	n (%)	median months	os
	All VEN doses	145	97 (67)	11.3	17.5
	Intermediate cytogenetic risk Poor cytogenetic risk	74 71	55 (74) 42 (59)	12.9 6.7	NR 9.6
	Secondary AML	36	24 (67)	NR	NR
	Age ≿75 years VEN 400 mg	62	40 (65)	9.2	11.0
	+ AZA	29	22 (76)	NB	NR
	+ DEC VEN 800 mg	31	22 (71)	12.5	15.2
	+ AZA	37	21 (57)	11.7	14.2
	+ DEC	37	27 (73)	9.2	17.5
	• N=145	•	67% 0	CR/Cri	
	 75% poor risk or sAML 	•		n duration o ri = 11.3 mon	-
CSF matology/Blood d Marrow ansplant Program		•	Media monti	in OS = 17.5 ns	

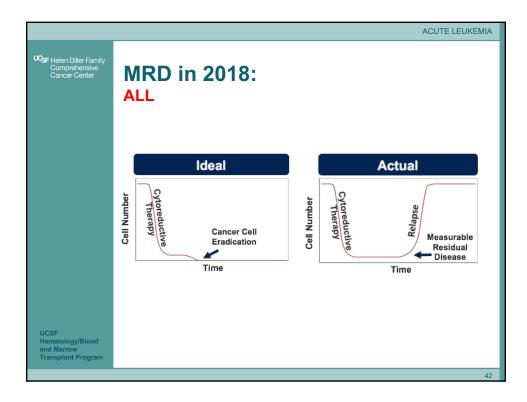












F Helen Diller Family Comprehensive Cancer Center	MRD in 2 ALL	2018:		
		Flow Cytometry	ASO-PCR	NGS
	Sensitivity	10 ⁻⁴ (to 10 ⁻⁵)	10 ⁻⁴ to 10 ⁻⁵	10-6
	Samples	Fresh	Fresh or Frozen	Fresh or Frozen
	Availability	Widely available*	Not widely available	Universally via centralized reference lab
	Customization	Not needed ⁺	Patient specific probes and primers	None
	Cost	Expensive	Expensive	Expensive
CSF ematology/Blood nd Marrow ransplant Program		sis may not be adequate r cells must be different f		

