

**Title: Patient Characteristics and Outcomes in Adolescents and Young Adults (AYA) with Acute Myeloid Leukemia (AML)**

**Supplemental Data (Tables 1S-4S)**

**Table 1S: Overall Survival- Distribution by Cytogenetic Group by Treatment Era for AML AYA group**

<b>Overall Survival , 5-year %</b>					
	<b>N</b>	<b>1965-1984</b>	<b>1985-2000</b>	<b>2001-2009</b>	<b>p-value</b>
<b>CBF</b>	73	29	49	77	0.028
<b>APL</b>	51	18	47	91	0.033
<b>Diploid</b>	97	20	38	44	0.12
<b>Other</b>	211	9	21	27	0.31

**Table 2S: Complete Remission Duration-- Distribution by Cytogenetic Group by Treatment Era AML AYA group**

<b>Complete Remission Duration, 5-year %</b>					
	<b>N</b>	<b>1965-1984</b>	<b>1985-2000</b>	<b>2001-2009</b>	<b>p-value</b>
<b>CBF</b>	68	23	44	67	0.055
<b>APL</b>	40	29	47	79	0.21
<b>Diploid</b>	76	30	24	33	0.12
<b>Other</b>	145	16	22	42	0.32

<b>Table 3S: Univariate Analysis, Diploid cytogenetics group</b>						
<b>Variable</b>	<b>CR</b>		<b>CR duration</b>		<b>OS</b>	
	<b>OR</b>	<b>p-value</b>	<b>Median (mo)</b>	<b>p-value</b>	<b>HR</b>	<b>p-value</b>
<b>Age, years</b>						
<b>≥30</b>			12.0			
<b>16-29</b>	1.77	0.022	10.0	0.139	0.65	0.001
<b>Prior chemo/Radiation</b>						
<b>No</b>			12.10			
<b>Yes</b>	0.61	0.026	9.30	0.069	1.45	0.002
<b>Treatment</b>						
<b>HDAC+Anthracycline</b>			12.95			
<b>Fludarabine-based</b>	0.70	0.082	10.90		1.39	0.003
<b>HDAC, no anthracycline</b>	0.63	0.007	10.40		1.45	<0.001
<b>ARAC, not high dose</b>	0.79	0.154	12.30		1.23	0.019
<b>Other</b>	0.21	<0.001	12.20	<0.001	2.09	<0.001
<b>NPM1</b>						
<b>Negative</b>			8.85			

<b>Positive</b>	1.87	0.122	9.05	0.063	0.86	0.569
<b>FLT3-ITD</b>						
<b>Negative</b>			12.30			
<b>Positive</b>	0.69	0.063	6.40	<0.001	2.19	0.569
<b>FLT3-D835</b>						
<b>Negative</b>			10.40			
<b>Positive</b>	1.28	0.483	11.50	0.541	0.96	0.828

**Table 4S: Multivariate Analysis, Diploid cytogenetic group**

Variable	CR		CR duration		OS	
	OR	<i>p</i> -value	$\beta$	<i>p</i> -value	OR	<i>p</i> -value
<b>Age, years</b>						
<b>≥30</b>						
<b>16-29</b>	1.68	0.073	6.06	0.245	0.77	0.052
<b>Prior chemo/Radiation</b>						
<b>No</b>						
<b>Yes</b>	0.53	0.058	-3.74	0.666	1.60	0.007
<b>Treatment</b>						
<b>HDAC+Anthracycline</b>						
<b>Fludarabine-based</b>	0.88	0.571	44.85	0.002	1.24	0.055
<b>HDAC, no anthracycline</b>	0.73	0.086	12.02	0.069	1.33	0.003
<b>ARAC, not high dose</b>	0.76	0.153	5.74	0.114	1.39	0.001
<b>Other</b>	0.21	<0.001	9.56	0.186	2.18	<0.001

<b>NPM1</b>						
<b>Negative</b>	1.86	0.131	6.19	0.062	0.90	0.693
<b>Positive</b>						
<b>FLT3-ITD</b>						
<b>Negative</b>						
<b>Positive</b>	0.68	0.053	-8.75	<0.001	2.22	<0.001
<b>FLT3-D835</b>						
<b>Negative</b>						
<b>Positive</b>	1.26	0.510	2.33	0.538	0.95	0.803