

Supplementary Table 1 Detailed characterization of relapsed AML case

Case No.	Sex	Age	Cytogenetics	RUNX1 abnormality	FLT3-ITD	C-KIT	NPM	Risk group	Chemo post relapse	DFS (months)	OS (months)
17	Male	33	46, XY,t(8;21)(q22;q22)[18]	Translocation	Wild-negative	Negative	Negative	Low	FLAM	14	15
22	Female	34	46, XX [20]	Absent	Wild-negative	Negative	Wild-negative	Intermediate	Sprycel	5	40
28	Female	43	47,XX,+8[5]/46,XX[15]	Absent	Mutated-heterozygous	Negative	Negative	High	_	8	8
35	Male	42	No mitosis	Absent	wild-negative	Negative	Wild-negative	Intermediate	FLAG and Nepugen	7	36
41	Female	57	46,XY,der21[4]	Translocation	wild-negative	Negative	Wild-negative	Intermediate	VP16	7	30

44	Male	52	46,XY,t(8;21)[5]	Translocat ion	wild- negative	Muta nt- positi ve	Negat ive	Interme diate	Reinduct ion by FLAG/a dria	10	12
46	Male	64	No mitosis	Amplifica tion	negative	Wild- negati ve	Negat ive	Interme diate	Citozar	8	14
47	Male	51	46, XY [20]	Absent	negative	Wild- negati ve	Muta nt	Low	Hydrea	26	27
48	Male	35	48,XY,+20,der21t(1;21), mar [12]	Translocat ion+ Amplifica tion	wild- negative	Negat ive	Wild- negati ve	High	FLAM	3	3
52	Male	20	51,XY,t(9;22)[18]	Amplifica tion	wild- negative	Negat ive	Wild- negati ve	High	Sprycel, COAP/ VP16	15	20
65	Male	49	53,XY,+4,+8,+9,+10,+21x 4	Amplifica tion	wild- negative	Negat ive	Wild- negati ve	Interme diate	Sprycel	11	20

66	Fem ale	22	32,XX,-21[3]/46,XX[2]	Deletion	mutant allelic ratio (0.2)	Negat ive	Wild- negati ve	High	FLAM	4	5
68	Male	21	46,XY,der?t(/;21q22),del (21)(q22)[4]/46,XY[16]	Translocat ion+ Deletion	wild- negative	Negat ive	Wild- negati ve	Interme diate	FLAG/A dria	2	12
70	Male	21	46,XY,inv16 [18]	Absent	wild- negative	Wild- negati ve	Wild- negati ve	low	FLAM	11	13

DFS: Disease-free survival; OS: Overall survival.