Supplementary Table 1 Cytogenetics and molecular expressions of the cohort

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| Sr. No. | Gender | Diagnostic Related Group | Leukemia Type | Karyotype | Cytogenetics | Indication of Clofarabine | HSCT | Donor | Patient Survival Status |
| 1 | M | A.L.L | B CELL | 46,XY | trisomy TCF3 | RELAPSE | POSITIVE | MRD | EXPIRED |
| 2 | F | A.L.L | B CELL | 46XX | monosomy ETV6 | RELAPSE | NEGATIVE |  | EXPIRED |
| 3 | F | A.L.L | B CELL | 46,XX | trisomy RUNX1 (21q22) | RELAPSE | NEGATIVE |  | EXPIRED |
| 4 | M | A.L.L | B CELL | 46,XY | MLL rearragment | REFRACTORY DISEASE | NEGATIVE |  | EXPIRED |
| 5 | F | A.L.L | B CELL | N/A | N/A | RELAPSE | POSITIVE | MRD | EXPIRED |
| 6 | M | A.L.L | B CELL | Complex | Complex | RELAPSE | NEGATIVE |  | EXPIRED |
| 7 | F | A.L.L | B CELL | N/A | MLL rearragment | REFRACTORY DISEASE | NEGATIVE |  | EXPIRED |
| 8 | M | A.L.L | B CELL | 46,XY | Negative | RELAPSE | NEGATIVE |  | EXPIRED |
| 9 | M | A.L.L | B CELL | Hyperdiploid | trisomy 4 and 17 and trisomy TcRA | RELAPSE | POSITIVE | MRD | EXPIRED |
| 10 | M | A.L.L | B CELL | N/A | N/A | RELAPSE | NEGATIVE |  | EXPIRED |
| 11 | M | A.L.L | B CELL | 46 XY | trisomy 11 | RELAPSE | NEGATIVE |  | EXPIRED |
| 12 | M | A.L.L | B CELL | 46 XY | ETV-RUNX1 | RELAPSE | NEGATIVE |  | EXPIRED |
| 13 | M | A.L.L | B CELL | 47,XY,+X,add(21)(q22) | Amplified RUNX1(AML1)(21q22) | RELAPSE | POSITIVE | MRD | EXPIRED |
| 14 | M | A.L.L | B CELL | 46,XY | N/A | RELAPSE | NEGATIVE |  | EXPIRED |
| 15 | F | A.L.L | T CELL | N/A | Loss of a p16 signal and gain of both the ASS and ABL1 | REFRACTORY DISEASE | NEGATIVE |  | EXPIRED |
| 16 | M | A.L.L | B CELL | 46,XY | MLL REARAGNGMENT | REFRACTORY DISEASE | NEGATIVE |  | EXPIRED |
| 17 | F | A.L.L | B CELL | 46,XX | NEGATIVE | REFRACTORY DISEASE | NEGATIVE |  | EXPIRED |
| 18 | M | A.L.L | B CELL | Hyperdiploid | Hyperdiploid | REFRACTORY DISEASE | POSITIVE | HAPLO | EXPIRED |
| 19 | M | A.L.L | B CELL | Failed | RUNX1 (21Q22) | RELAPSE | POSITIVE | MRD | ALIVE |
| 20 | M | A.L.L | B CELL | N/A | BCR-ABL(9Q22) | RELAPSE | NEGATIVE |  | EXPIRED |
| 21 | M | A.L.L | B CELL | 47,XY,+X,t(4;11)(q21;q23) | MLL (11q23) Rearrangement | REFRACTORY DISEASE | NEGATIVE |  | EXPIRED |
| 22 | M | A.L.L | T CELL | 46,XY,t(1;14)(p32;q11.2) | TCRA/D (14q11.2) rearrangement | RELAPSE | NEGATIVE |  | EXPIRED |
| 23 | M | A.L.L | B CELL | Hyperdiploid | Hyperdiploid | REFRACTORY DISEASE | POSITIVE | MRD | ALIVE |
| 24 | F | A.L.L | B CELL | 51~52,XX,+X,+14,+21,+21,+2mar[cp5]/46,XX[1] | Gain (tetrasomy) of RUNX1 (21q22) | REFRACTORY DISEASE | NEGATIVE |  | ALIVE |
| 25 | M | A.L.L | B CELL | N/A | mono 7+complex cytogentics | REFRACTORY DISEASE | POSITIVE | HAPLO | ALIVE |
| 26 | M | A.L.L | B CELL | Failed | Runx 1-21q22 | RELAPSE | NEGATIVE |  | ALIVE |
| 27 | M | A.L.L | BIPHENOTYPIC | 46,XY | monosomy CBFB(16q22) | RELAPSE | NEGATIVE |  | EXPIRED |
| 28 | M | A.L.L | B CELL | Hyperdiploid | Hyperdiploid | REFRACTORY DISEASE | POSITIVE | MRD | ALIVE |
| 29 | M | A.L.L | T CELL | 46,XY | Nullisomy (loss of both homologous) TP16 (9p21). | REFRACTORY DISEASE | POSITIVE | MRD | EXPIRED |
| 30 | M | A.L.L | T CELL | N/A | MLL rearangment 11q23) | REFRACTORY DISEASE | POSITIVE | MRD | EXPIRED |
| 31 | M | A.M.L | M7 | N/A | FAILED | RELAPSE | NEGATIVE |  | EXPIRED |
| 32 | F | A.M.L | AML UNKNOWN TYPE | 46,XX,t(6;11)(q27;q23)[20] | 6;11 translocation. MLL(11q23) rearrangement. | RELAPSE | POSITIVE | MRD | EXPIRED |
| 33 | M | A.M.L | AML UNKNOWN TYPE | 46,XY | NEGATIVE | RELAPSE | POSITIVE | MRD | EXPIRED |
| 34 | M | A.M.L | AML UNKNOWN TYPE | 47,XY +11 | MLL t(11q23) | RELAPSE | POSITIVE | MRD | EXPIRED |
| 35 | F | A.M.L | AML UNKNOWN TYPE | Failed | Negative | RELAPSE | NEGATIVE |  | EXPIRED |
| 36 | M | A.M.L | AML UNKNOWN TYPE | 46,XY | t(11;19) | REFRACTORY DISEASE | NEGATIVE |  | EXPIRED |
| 37 | F | A.M.L | AML UNKNOWN TYPE | 46,XX | trisomy 3 | REFRACTORY DISEASE | NEGATIVE |  | EXPIRED |
| 38 | F | A.M.L | M5 | Failed | N/A | RELAPSE | POSITIVE | MRD | ALIVE |
| 39 | M | A.M.L | AML UNKNOWN TYPE | N/A | N/A | RELAPSE | POSITIVE | MRD | EXPIRED |
| 40 | M | A.M.L | AML UNKNOWN TYPE | 47,XY,+21[3]/48,idem,+9[16]/46,XY[1] | Gain of a RUNX1 (21q22) signal, consistent with trisomy 21. | REFRACTORY DISEASE | POSITIVE | HAPLO | ALIVE |
| 41 | M | A.M.L | AML UNKNOWN TYPE | 47,XY,+1,der(1)t(1;17)(q10;q10),+11,-17 | Unbalanced 1q gain, trisomy 11, and loss of 17p. gain of MLL (11q23) | RELAPSE | NEGATIVE |  | EXPIRED |
| 42 | F | A.M.L | M7 | 46,XX,der(20)t(1;20)(q21;q13.3),+21[cp9] | Gain of a RUNX1 (21q22). | REFRACTORY DISEASE | NEGATIVE |  | EXPIRED |
| 43 | M | A.M.L | AML UNKNOWN TYPE | 50XY+7+11+21 | del ch.7 | Relapse | POSITIVE | MRD | EXPIRED |