**Supplemental Table 1.** B-cells and CD27^{+} memory B-cells are lower in patients treated with fludarabine ore with more than one line of chemotherapy.

| | Fludarabine administration =YES (n=7) | Fludarabine administration =NO (n=17) | *P* value* |
|---|---|---|---|
| CD19+ B-cells [n, cells/µl (IQR)] | 24 (16-130) | 196 (91-296) | **.019** |
| CD19+ B-cells [%, (IQR)] | 2.0 (1.0-10.0) | 13.0 (6.5-16.0) | **.034** |
| CD27+ memory B-cells [n, cells/µl (IQR)] | 3 (1-11) | 8 (3-33) | .13 |
| CD27+ memory B-cells [%, (IQR)] | 0.2 (0.1-0.6) | 0.6 (0.3-1.5) | .19 |

| | More than one line of chemotherapy=YES (n=4) | More than one line of chemotherapy= NO (n=20) | *P* value* |
|---|---|---|---|
| CD19+ B-cells [n, cells/µl (IQR)] | 22 (3-104) | 189 (85-264) | **.029** |
| CD19+ B-cells [%, (IQR)] | 1.5 (1.0-8.0) | 12.0 (13.0-16.0) | **.037** |
| CD27+ memory B-cells [n, cells/µl (IQR)] | 1 (1-6) | 9 (3-23) | **.029** |
| CD27+ memory B-cells [%, (IQR)] | 0.1 (0.1-0.5) | 0.6 (0.3-1.13) | .06 |

**Notes**

*Abbreviations.* IQR, Interquartile range; % = % of cells in PBMCs.

*P* values are obtained by Mann-Whitney U test.