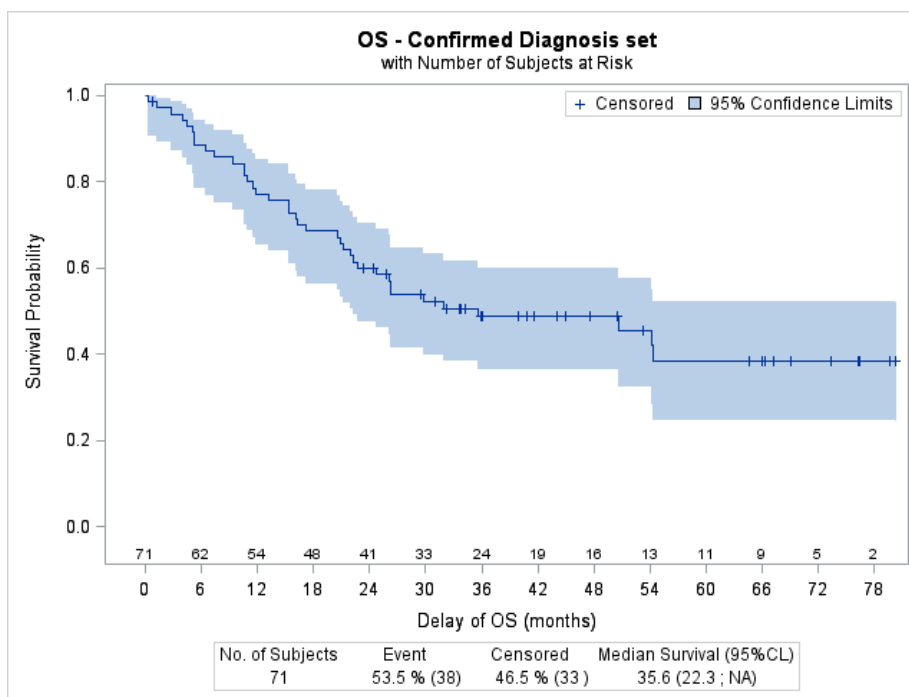
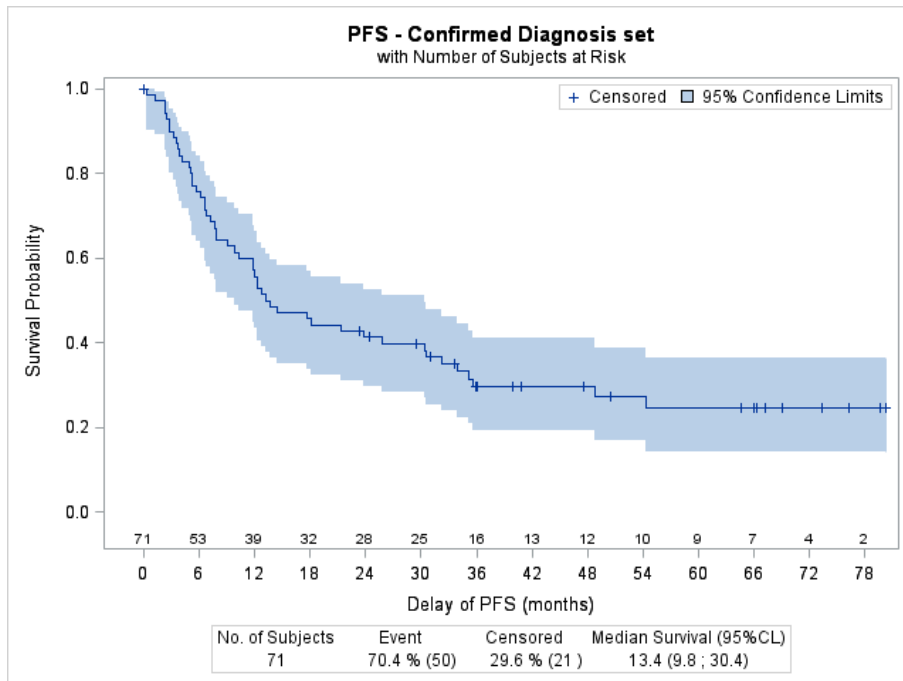
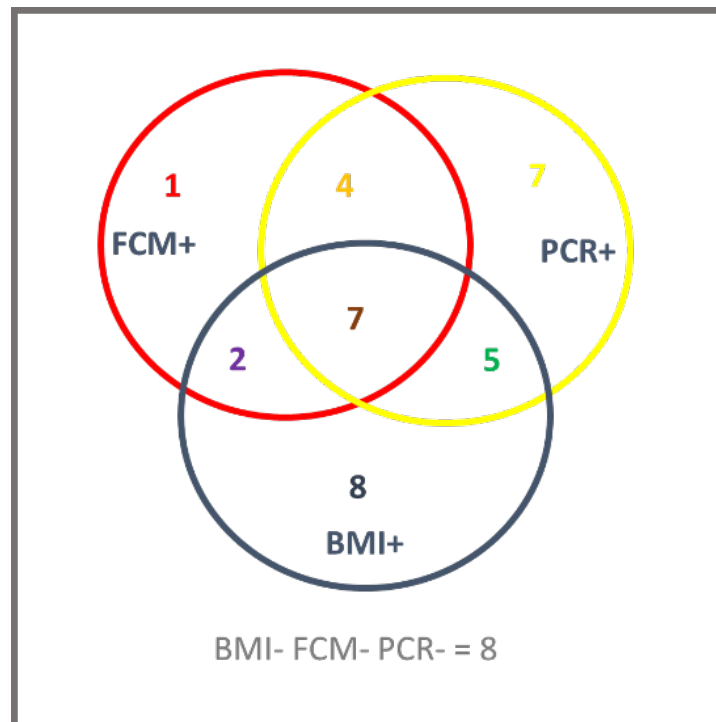


Supplemental Figures and Tables

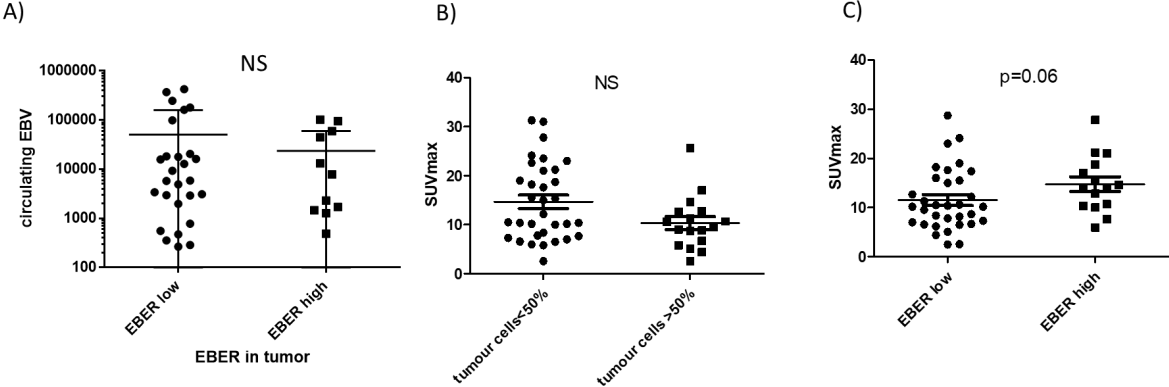
Supplemental Figure 1: Kaplan Meier curve representing A) PFS and B) OS of the 71 patients with a confirmed AITL.



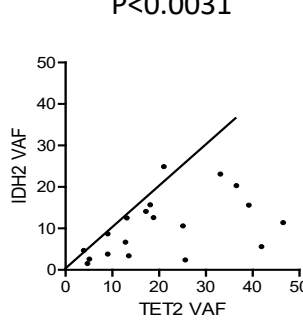
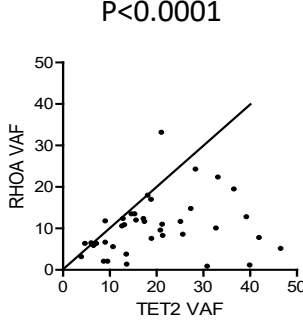
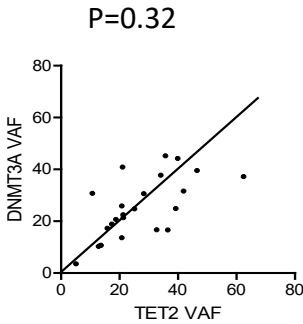
**Supplemental figure 2: Coexistence of Bone marrow involvement assessed by bone marrow trephine (BMI+) and blood involvement assessed by flow cytometry (FCM) or PCR-DGGE.** 8 patients (gray) was BMI, FCM and PCR negative. 8 patients (blue) had a BMI (demonstrated in bone marrow biopsy), but no detectable circulating population by PCR or FCM. 7 patients (yellow) had a clonal circulating population assessed by PCR, but no circulating population detectable by FCM or BMI. One patient (red) had a detectable circulating population detectable by FCM, but not by PCR or BMI. 5 patients (green) were BMI+ and PCR+, with a negative FCM. 2 patients (purple) were BMI+ and FCM+ but had no detectable clonal circulating population in PCR. Four patients (orange) were FCM+ and PCR+, with no evidence of BMI on bone marrow biopsy. Seven patients had BMI and positive FCM and PCR.



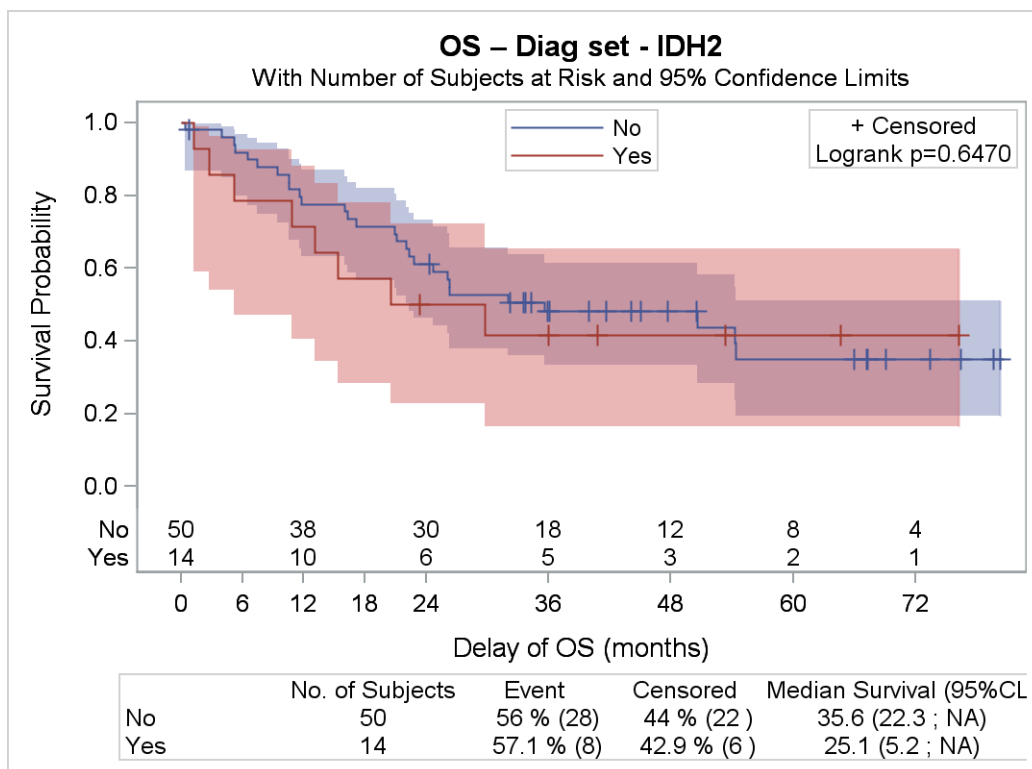
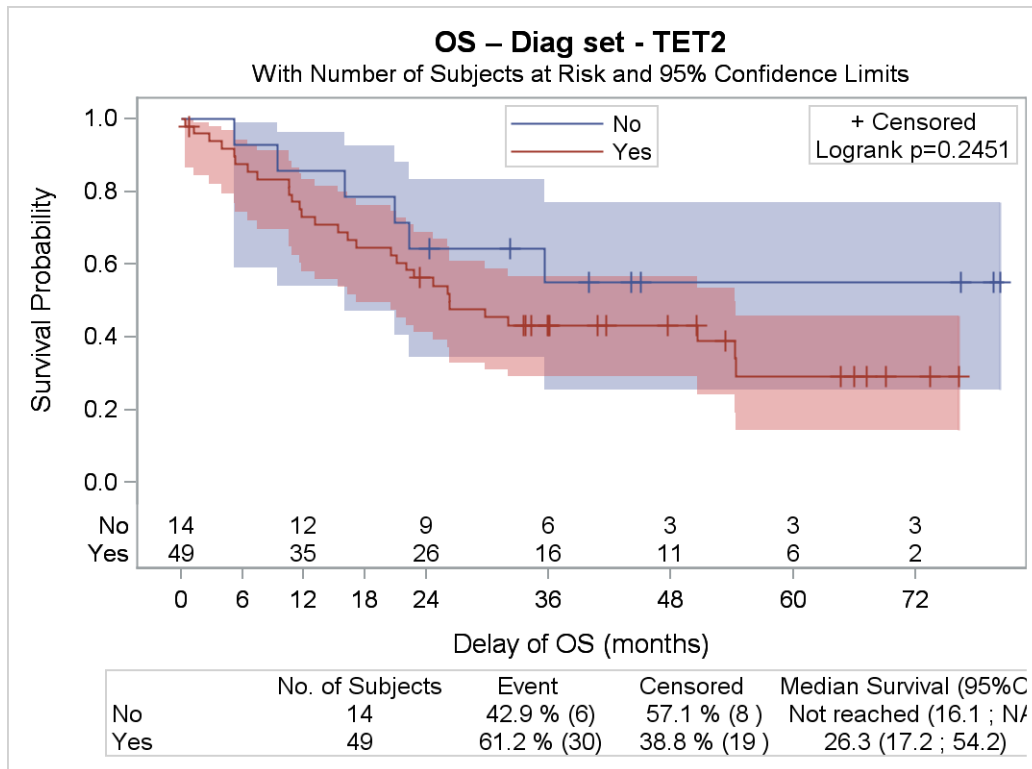
Supplemental Figure 3: Correlation between the number of copies of EBV genome in blood and expression of EBV RNA (EBER) in tumour, and between SUVmax and % of neoplastic T cells, estimated by morphology and immunochemistry (< or > 50%) and presence of EBV positive B blast within the tumour microenvironment. EBV low means EBV score 0 or 1, and EBV high, EBV score 2 or 3 with score 0: absence of large EBV-positive cells; score 1: up to 5 large EBV positive cells per high power field (hpf), score 2: 5 to 50 per hpf and score 3 : > 50 per hpf , or sheets or aggregates of large EBV-positive cells. Comparison was made using a Mann Whitney test.

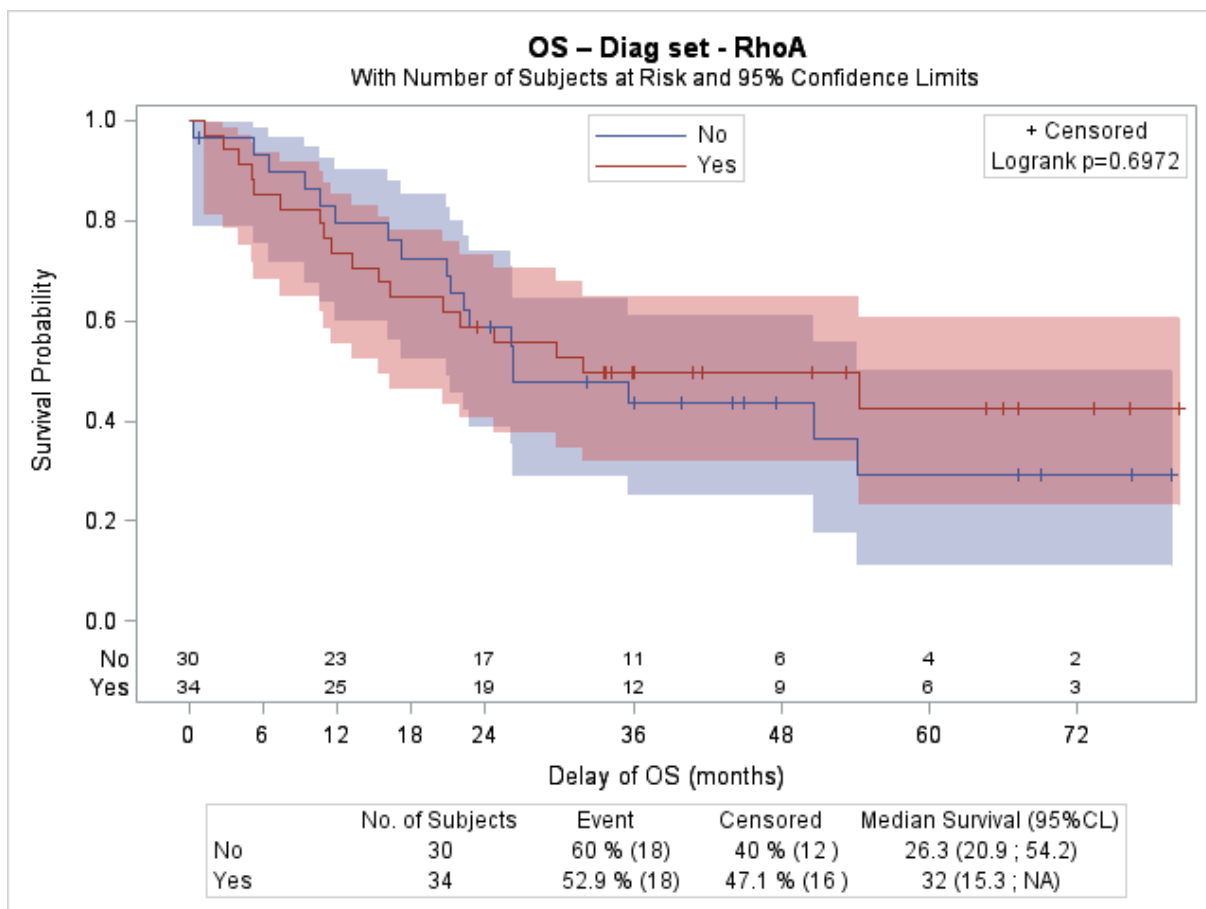
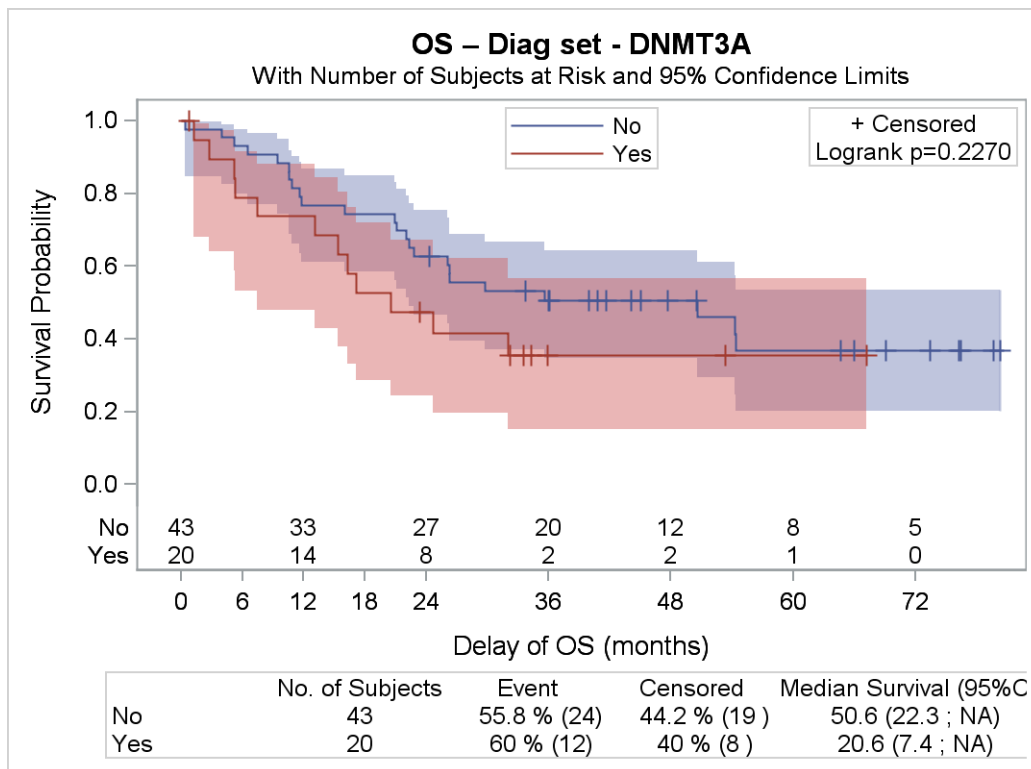


Supplemental figure 4: Comparison of variant allele frequency (VAF). Wilcoxon rank sum test.



Supplemental Figure 5: Overall survival Kaplan Meier curves depending on the presence of TET2, IDH2, DNMT3A, TET2+IDH2+DNMT3A and RHOA mutation





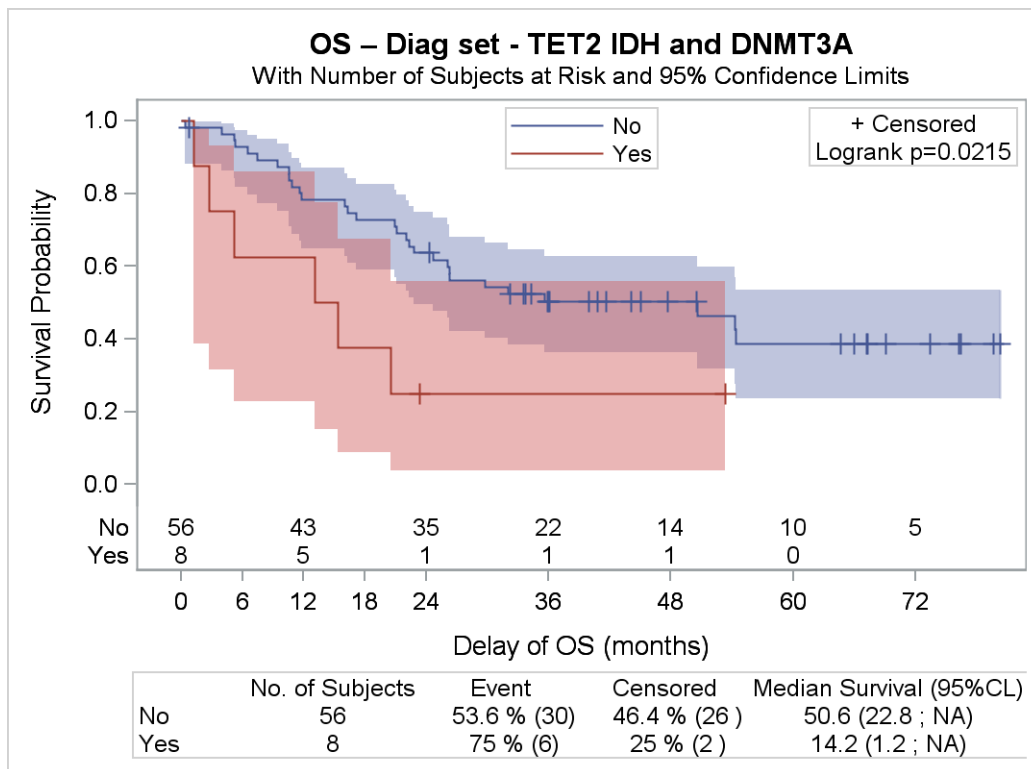
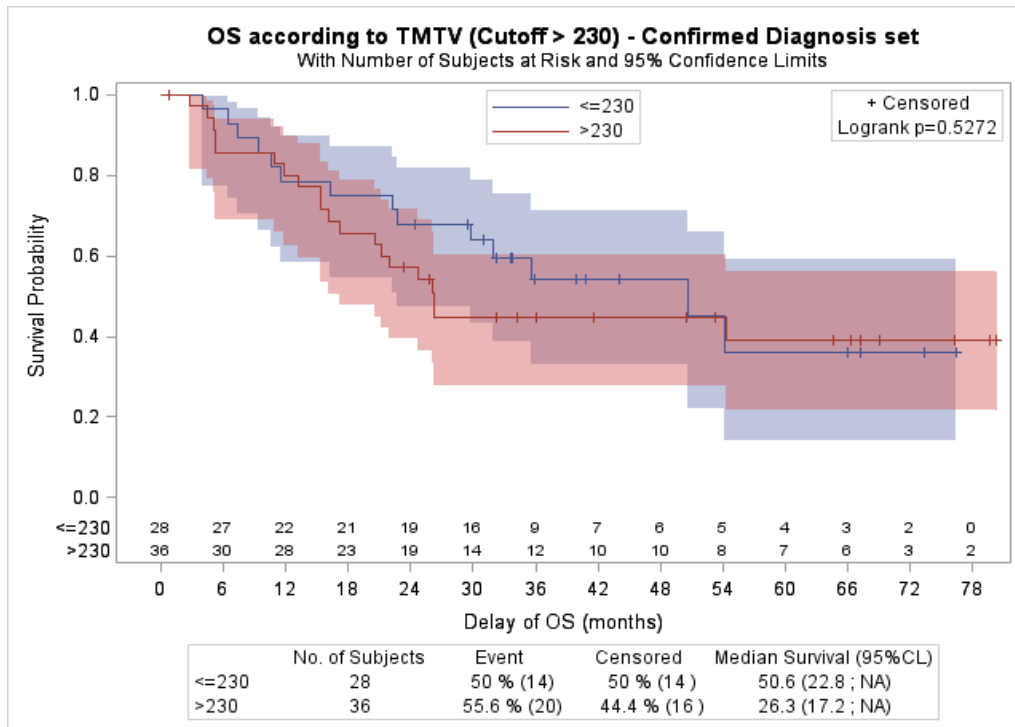
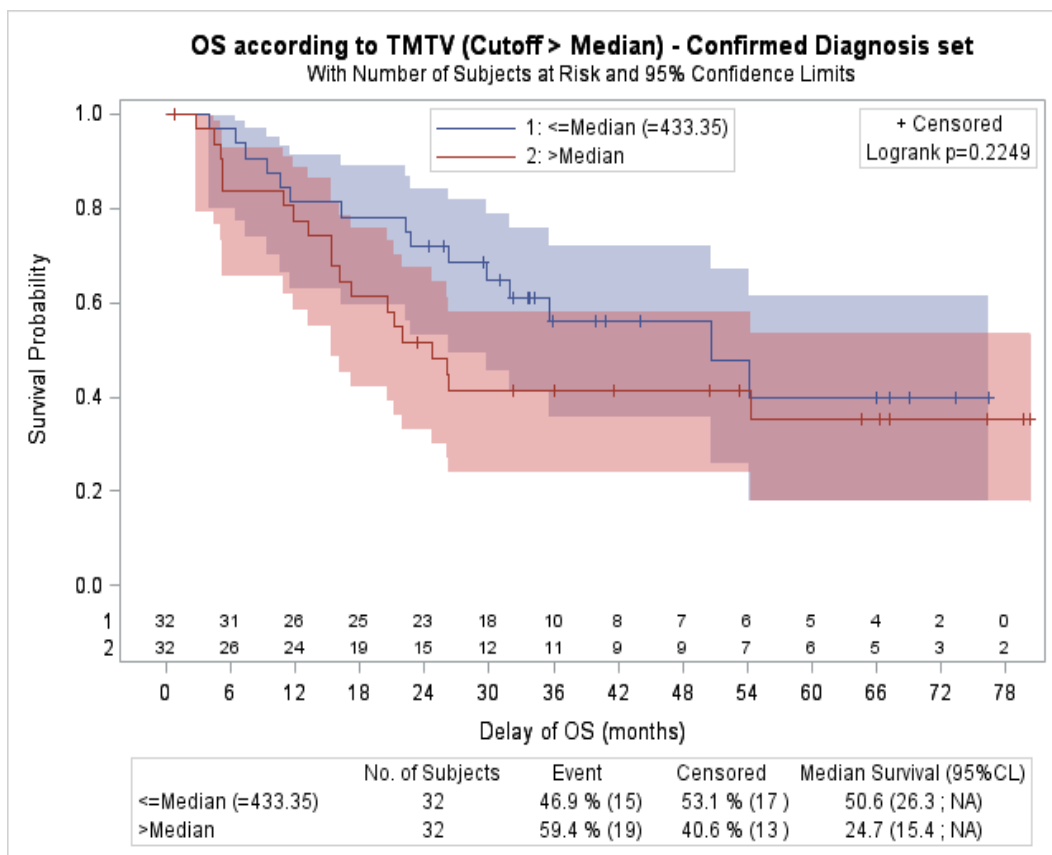
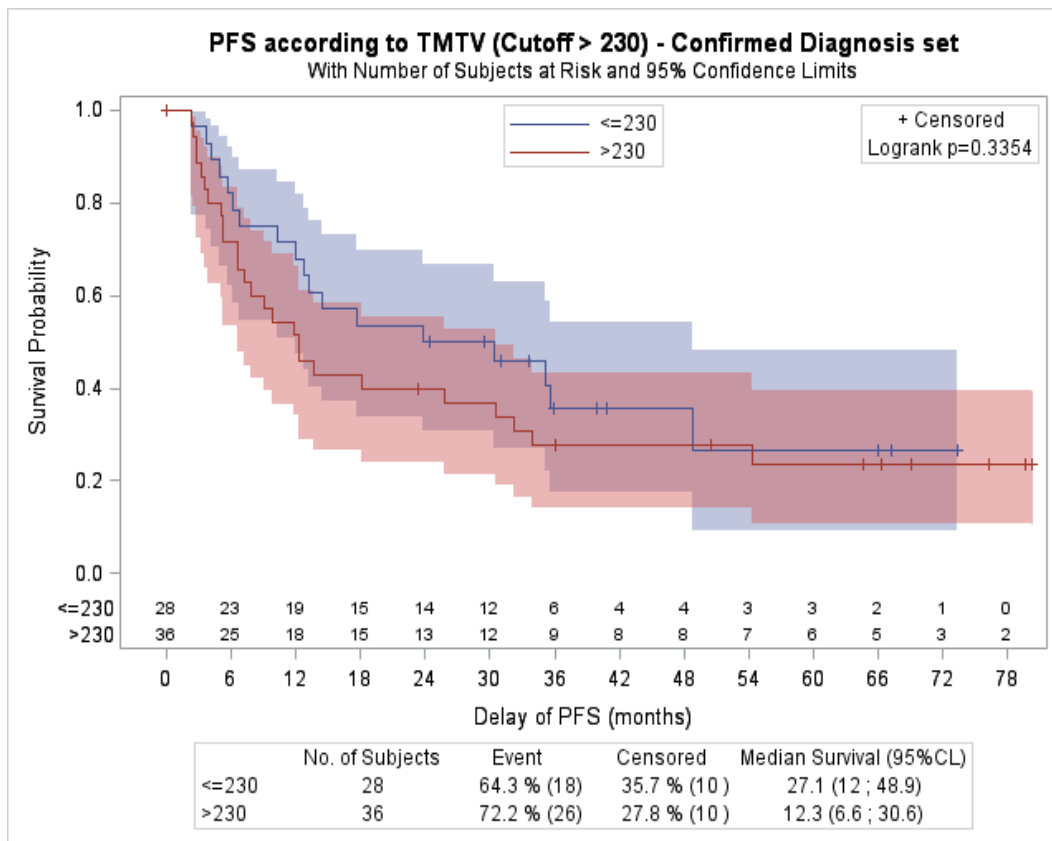


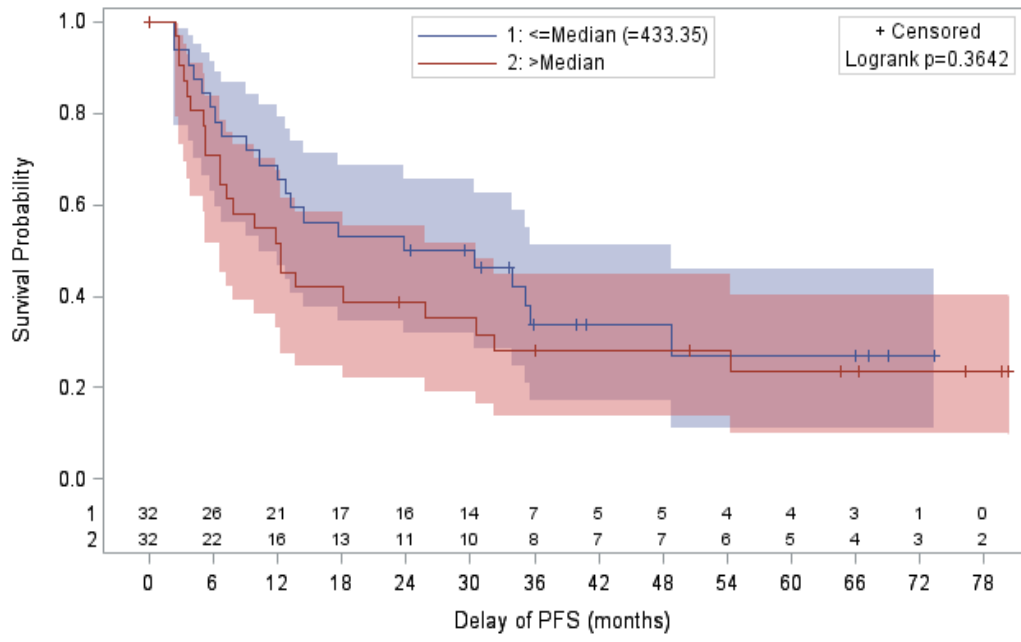
Figure S6: OS and PFS depending on the TMTV, with a threshold at 230cm<sup>3</sup>, or in dichotomizing the cohort at the median







**PFS according to TMTV (Cutoff > Median) - Confirmed Diagnosis set**  
 With Number of Subjects at Risk and 95% Confidence Limits



	No. of Subjects	Event	Censored	Median Survival (95%CL)
<=Median (=433.35)	32	65.6 % (21)	34.4 % (11)	27.1 (10.3 ; 48.9)
>Median	32	71.9 % (23)	28.1 % (9)	12.3 (6.6 ; 30.6)

Supplemental table 1: Correlation between the detection of the mutations in TET2, RHOA, DNMT3A and IDH2 and clinical and pathological factors. Bold characters represent significant values.

	<b>Odds ratio[95%CI]</b>			
	<i>TET2</i> mut	<i>RHOA</i> mut	<i>DNMT3A</i> mut	<i>IDH2</i> mut
<b>Age&gt;65 years</b>	<b>6.2</b> [1.4 ;30]	1.5 [0.4 ;6.6]	4.3 [0.7; 80.6]	2.4 [0.4; 48]
<b>IPI (3-5)</b>	<b>6.7</b> [1.9 ;25.9]	2.2 [0.7;7.6]	4.1 [0.99; 28.1]	1.3 [0.3;6.5]
<b>PIT (3-4)</b>	3.1 [0.7 ; 21.9]	3.6 [1;14]	2.3 [0.7; 7.6]	3.2 [0.9;12.0]
<b>BMI</b>	0.5 [0.1-1.9]	<b>0.3 [0.1-0.8]</b>	0.6 [0.2-1.8]	<b>0.05 [0.003-0.3]</b>
<b>Strong ICOS expression</b>	<b>4.2</b> [1.0; 19.2]	<b>3.7</b> [1.1; 14.5]	1.5 [0.4;6.7]	1.5 [0.4; 8.2]
<b>FDC expansion</b>	1.8 [0.5; 6.6]	7.7 [2.3 ;31.3]	2.1 [0.6;8.7]	<b>11.32</b> [2.19;I]
<b>Clear cells</b>	5.7 [0.9; 111]	3.3 [0.8;14.3]	2.6 [0.6;11.1]	24 [4.5;195]

Supplemental Table 2: impact of the mutational landscape on response rate and survival

Mutated vs unmutated	CMR Odds ratio [IC95%]	PFS Hazard ratio [IC95%]	OS Hazard ratio [IC95%]
<i>TET2</i>	0.633 (0.188-2.122)	1.3080 (.649-2.639)	1.673 (0.696-4.021)
<i>DNMT3A</i>	0.349 (0.099-1.079)	<b>1.924 (1.033-3.583)</b>	1.535 (0.762-3.092)
<i>IDH2</i>	1.500 (0.449-5.030)	0.947 (0.457-1.962)	1.201 (0.547-2.638)
<i>RHOA</i>	1.535 (0.567-4.258)	0.843 (0.472-1.506)	0.878 (0.456-1.689)
<i>TET2+IDH2+DNMT3A</i>	0.800 (0.152-3.588)	2.120 (0.935-4.809)	<b>2.737 (1.119-6.694)</b>